

A BIBLIOGRAPHY OF COLORADO VEGETATION DESCRIPTION

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ABSTRACT.— A list of 658 references to Colorado vegetation description is presented, along with county and subject indexes to the list.

This bibliography includes published and selected unpublished references through 1981. Included are references to vegetation description, including studies that contain only qualitative description, along with more detailed quantitative studies. Also included are selected references to age/size structure, fire, succession, floristics, vegetation history (primarily palynology), phenology, plant geography, vegetation zonation, and the timberline. An index is included to subjects other than vegetation description. Coverage of these tangential subjects may not be comprehensive. Autecological and environmental studies are generally excluded, as are studies pertaining only to nonvascular vegetation.

References are included here if at least part of the study area is in Colorado. Excluded are the many works from adjoining states that may have relevance, particularly to the margins of Colorado, but have no part of their study areas inside Colorado. Researchers should consult bibliographies from adjoining states for these references.

Included below is an index to the bibliography by county. A single reference may pertain to more than one county. Also included are a list of studies pertaining to the whole state, and a list of "regional studies" that pertain to an undefined, or poorly demarcated part of the state. Researchers seeking complete coverage of a particular county should also check references in these lists.

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¹Colorado Natural Heritage Inventory, 1550 Lincoln Street, Suite 110, Denver, Colorado 80203.

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BIBLIOGRAPHY

1. Aldous, A. E., and H. L. Shantz. 1924. Types of vegetation in the semiarid portion of the United States and their economic significance. *J. Agr. Res.* 28: 99-128.

2. Alexander, M. E. 1980. Four fire scar records on lodgepole pine (*Pinus contorta* Dougl.) in north-central Colorado. *S. W. Natur.* 25:432-434.
3. Alexander, M. E., and D. V. Sandberg. 1976. Fire ecology and historical fire occurrence in the forest and range ecosystems of Colorado: a bibliography. *Colo. St. Univ., Dept. of For. and Wood Sci., Occas. Report.* 17 pp.
4. Alexander, M. E., and D. V. Sandberg. 1979. Fire ecology and historical fire occurrence in the forest and range ecosystems of Colorado: a bibliography, supplement No. 1. *Colo. St. Univ., Dept. of For. and Wood Sci., Occas. Report.* 4 pp.
5. Alexander, R. R. 1974a. Silviculture of central and southern Rocky Mountain forests: a summary of the status of our knowledge by timber types. *USDA For. Serv. Res. Paper RM-120, Rocky Mt. For. and Range Expt. Stn., Fort Collins, Colo.* 36 pp.
6. Alexander, R. R. 1974b. Silviculture of subalpine forests in the central and southern Rocky Mountains: the status of our knowledge. *USDA For. Serv. Res. Paper RM-121, Rocky Mt. For. and Range Expt. Stn., Fort Collins, Colo.* 88 pp.
7. Allison, E. M. 1908. Bibliography and history of Colorado botany. *Univ. of Colo. Studies* 6: 51-76.
8. Amundsen, C. C. 1967. The subalpine forest of Wild Basin, Front Range, Colorado. Unpubl. dissertation, *Univ. of Colo., Boulder.* 129 pp.
9. Andersen, D. C., R. S. Hoffman, and K. B. Armitage. 1979. Aboveground productivity and floristic structure of a high subalpine herbaceous meadow. *Arct. and Alp. Res.* 11:467-476.
10. Anderson, J. M., Jr. 1950. A flora of Baca County, Colorado. Unpubl. thesis, *Univ. of Colo., Boulder.* 39 pp.
11. Andrews, J. T., P. E. Carrara, F. B. King, and R. Stuckenrath. 1975. Holocene environmental changes in the alpine zone, northern San Juan Mountains, Colorado: evidence from bog stratigraphy and palynology. *Quat. Res.* 5:173-197.
12. Armstrong, D. M. 1972. Distribution of Mammals in Colorado. *Mus. Nat. Hist., Univ. of Kansas, Monogr. No. 3.* [Vegetation: p. 26-31].
13. Ashton, R. E. 1930. Preliminary observations on revegetation of the Twinsisters Burn in Rocky Mountain National Park. *J. Colo.-Wyom. Acad. Sci.* 1(2):13 (Abstract).
14. Bachrach, J. H. 1951. The plant communities of a valley in the montane forest of the Colorado Front Range. Unpubl. thesis, *Univ. of Colo., Boulder.* 68 pp.
15. Badaracco, R. J. 1971. An interpretive resource analysis of Pawnee Buttes, Colorado. Unpubl. dissertation, *Colo. St. Univ., Fort Collins.* 341 pp.
16. Bader, E. H. 1932. The vegetation of the Mesa Verde National Park, Colorado. Unpubl. thesis, *Univ. of Colo., Boulder.* 64 pp.
17. Bailey, D. K. 1970. Phytogeography and taxonomy of *Pinus* subsection *Balfourianae*. *Ann. Missouri Bot. Gard.* 57:210-249.
18. Baker, C. F. 1898. Botanizing in the La Plata Mountains. *Plant World* 2:29-32.
19. Baker, F. S. 1925. Aspen in the central Rocky Mountain region. *USDA Bull.* 1291. 46 pp.
20. Barber, R. A. 1935. An ecological study of a small, montane, spring-fed, stream area in the University of Colorado camp, on Mount Niwot. Unpubl. thesis, *Univ. of Colo., Boulder.*
21. Barclay, H. G. 1941a. Plant communities of the Gothic area and their successional relations. *Bull. Ecol. Soc. Am.* 22:34 (Abstract).
22. Barclay, H. G. 1941b. A subalpine climax grassland in west central Colorado. *Bull. Ecol. Soc. Am.* 22:35 (Abstract).
23. Barrell, J. 1969. Flora of the Gunnison Basin: Gunnison, Saguache, and Hinsdale counties. *Natur. Land Inst., Rockford, Ill.*
24. Barrows, J. S., E. W. Mogren, K. Rowdabaugh, and R. Yancik. 1977. The role of fire in ponderosa pine and mixed conifer ecosystems. Final report, Co-op Agreem. with U.S. Nat. Park Serv. (CX-1200-7-8011) and Rocky Mt. For. and Range Exp. Stn. (16-542-CA), on file at Rocky Mt. For. and Range Expt. Stn., Fort Collins, Colo. 101 pp.
25. Barth, R. C. 1970. Revegetation after a subalpine wildfire. Unpubl. thesis, *Colo. St. Univ., Fort Collins.* 142 pp.
26. Bates, C. G. 1917. Forest succession in the central Rocky Mountains. *J. For.* 15:587-592.
27. Bates, C. G. 1923. The transect of a mountain valley. *Ecology* 4: 54-62.
28. Bates, C. G. 1924. Forest types in the central Rocky Mountains as affected by climate and soil. *USDA Bull. No. 1233.* 152 pp.
29. Bates, C. G., F. B. Notestein, and P. Keplinger. 1914. Climatic characteristics of forest types in the central Rocky Mountains. *Proc. Soc. Am. For.* 9:78-94.
30. Bathke, D. M. 1968. The flora of the subalpine and alpine zones in Robinson Basin, Colorado. Unpubl. thesis, *Western St. College, Gunnison, Colo.* 92 pp.
31. Baumann, T. G. 1978. Winter ecology of bighorn sheep in the Mummy Range, Colorado. Unpubl. thesis, *Colo. St. Univ., Fort Collins.*
32. Beck, R. F. 1965. Pocket gopher habitat relations in mountain rangelands in Colorado. Unpubl. thesis, *Colo. St. Univ., Fort Collins.* 61 pp.
33. Beidleman, R. G. 1948. The vertebrate ecology of a Colorado plains cottonwood river bottom. Unpubl. thesis, *Univ. of Colo., Boulder.*
34. Beidleman, R. G. 1952. The ponderosa-grassland ecotone in north central Colorado. *J. Colo.-Wyom. Acad. Sci.* 4(4):70 (Abstract).
35. Beidleman, R. G. 1953. The island of pines. *Living Wilderness* 46:7-10.
36. Beidleman, R. G. 1954. The cottonwood river-bottom community as a vertebrate habitat. Unpubl. dissertation, *Univ. of Colo., Boulder.* 358 pp.
37. Beidleman, R. G. 1957. Fire burn succession studies in the northern Colorado Rockies. *J. Colo.-Wyom. Acad. Sci.* 4(9):39 (Abstract).
38. Beidleman, R. G. 1967. Twenty-year successional studies in northern Colorado. *J. Colo.-Wyom. Acad. Sci.* 5(8):63-64 (Abstract).
39. Beidleman, R. G. 1978. The cottonwood-willow riparian ecosystem as a vertebrate habitat, with particular reference to birds. Pages 192-195 in W. D. Graul and S. J. Bissell, eds., *Lowland river and stream habitat in Colorado: a symposium.* (Greeley, Colo. 4-5 Oct. 1978). *Colo. Chap. Wildl. Soc. & Colo. Audubon Council.*
40. Beidleman, R. G., and W. Fischer. 1979. Environmental reconnaissance study of Perry Park Ranch, Douglas County, Colorado. *Wright-Ingram Institute, Colorado Springs, Colo.*

41. Bell, K. L. 1974a. Autecology of *Kobresia bellardii*: why winter snow accumulation patterns affect local distribution. Unpubl. dissertation, Univ. of Alberta, Edmonton. 167 pp.
42. Bell, K. L. 1974b. Autumn, winter, and spring phenology of some Colorado alpine plants. *Am. Midl. Natur.* 91:460-464.
43. Bell, K. L. 1977. Autecology of *Kobresia bellardii*: why winter snow accumulation affects local distribution. *Bull. Ecol. Soc. Am.* 58(2):41 (Abstract).
44. Bell, K. L., and L. C. Bliss. 1979. Autecology of *Kobresia bellardii*: why winter snow accumulation limits local distribution. *Ecol. Monogr.* 49: 377-402.
45. Benedict, J. B. 1977. A master plan for the Bunker Hill Placer Preserve, Boulder County, Colorado. Unpubl. report on file at The Nature Conservancy, Denver, Colo. 61 pp.
46. Bichel, M. A. 1959. Investigations of a Nebraska and a Colorado prairie and their impact on the relict concept. Unpubl. dissertation, Univ. of Nebraska, Lincoln. 180 pp.
47. Bierly, K. F. 1972. Meadow and fen vegetation in Big Meadows, Rocky Mountain National Park. Unpubl. thesis, Colo. St. Univ., Fort Collins, Colo. 102 pp.
48. Biggins, J. and M. H. Dodson. 1970. Marshall Mesa natural area study. Unpubl. report, Dept. Geogr., Univ. of Colo., Boulder. 54 pp.
49. Bollinger, W. H. 1973. The vegetation patterns after fire at the alpine forest-tundra ecotone in the Colorado Front Range. Unpubl. dissertation, Univ. of Colo., Boulder. 2 vols.
50. Bond, H. E. 1959. Revegetation and disintegration of pocket gopher mounds on Black Mesa, Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins.
51. Bonde, E. K. 1967. *Pinus aristata* (Pinaceae) in Boulder County, Colorado: northward extension of its known Colorado range. *S.W. Natur.* 12:474-475.
52. Bonham, C. D. 1966. An ordination of alpine hairgrass (*Deschampsia caespitosa* Beauv.) meadows. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 124 pp.
53. Bonham, C. D. 1972. Vegetation analysis of grazed and ungrazed alpine hairgrass meadows. *J. Range Mgmt.* 25: 276-279.
54. Bonham, C. D., and J. S. Hannan. 1978. Blue grama and buffalograss patterns in and near a prairie dog town. *J. Range Mgmt.* 31:63-65.
55. Bonham, C. D., and A. Lerwick. 1976. Vegetation changes induced by prairie dogs on shortgrass range. *J. Range Mgmt.* 29: 221-225.
56. Bonham, C. D., and R. T. Ward. 1970. Phytosociological relationships in alpine tufted hairgrass (*Deschampsia caespitosa* (L.) Beauv.) meadows. *Arct. and Alp. Res.* 2:267-275.
57. Bowes, A. L. 1958. Ecological analysis of mule deer winter range, Cache la Poudre canyon, Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins.
58. Boyce, D. A. 1976. A preliminary description of the ecosystems adjacent to the South Fork of the White River, Rio Blanco, and Garfield counties, Colorado. *J. Colo.-Wyom. Acad. Sci.* 8(1):45 (Abstract).
59. Boyce, D. A. 1977. Vegetation of the South Fork of the White River Valley, Colorado. Unpubl. dissertation, Univ. of Colo., Boulder.
60. Bradley, R. A. W. 1950. The vascular flora of Moffat County, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 71 pp.
61. Brandegee, T. S. 1878. Notes from Colorado. *Bot. Gaz.* 3:166.
62. Brandegee, T. S. 1880. Timber line in the Sawatch Range. *Bot. Gaz.* 5:125-126.
63. Branson, F. A., R. F. Miller, and I. S. McQueen. 1961. Soil-water availability and use by grasslands on adjacent stony and shale-derived soils in Colorado. Short papers in the geologic and hydrologic sciences. USGS Prof. Paper 424C:251-253.
64. Branson, F. A., R. F. Miller, and I. S. McQueen. 1964. Effects of two kinds of geologic materials on plant communities and soil moisture. *Am. Soc. Agron. Spec. Publ. No. 5*:165-175.
65. Branson, F. A., R. F. Miller, and I. S. McQueen. 1965. Plant communities and soil moisture relationships near Denver, Colorado. *Ecology* 46:311-319.
66. Branson, F. A., R. F. Miller, and I. S. McQueen. 1976. Moisture relationships in twelve northern desert shrub communities near Grand Junction, Colorado. *Ecology* 57:1104-1124.
67. Branson, F. A., and J. B. Owen. 1970. Plant cover, runoff, and sediment yield relationships on Mancos shale in western Colorado. *Water Resources Res.* 6:783-790.
68. Braun, C. E. 1969. Population dynamics, habitat, and movements of white-tailed ptarmigan in Colorado. Unpubl. dissertation, Colo. St. Univ., Fort Collins.
69. Brewster, J. F. 1968. Ecological factors in the revegetation of Slumgullion Mudflow near Lake City, Colorado. Unpubl. thesis, Univ. of Illinois, Urbana. 94 pp.
70. Brown, H. E. 1958. Gambel oak in west-central Colorado. *Ecology* 39:317-327.
71. Brown, H. E., and J. R. Thompson. 1965. Summer water use by aspen, spruce, and grassland in western Colorado. *J. For.* 63:756-760.
72. Bruderlin, K. 1911. A study of the lodgepole-pine forests of Boulder Park (Tolland, Colorado). *Univ. of Colo. Studies* 8:265-275.
73. Buck, P. 1960. Vegetational succession in sub-alpine ponds in the Rockies. *Proc. Okla. Acad. Sci.* 40:2-6.
74. Buckner, D. L. 1976. Occurrence and maintenance of ribbon forest in the Colorado Rocky Mountains. *J. Colo.-Wyom. Acad. Sci.* 8(1):46 (Abstract).
75. Buckner, D. L. 1977. Ribbon forest development and maintenance in the central Rocky Mountains of Colorado. Unpubl. dissertation, Univ. of Colo., Boulder. 224 pp.
76. Bujakiewicz, A. 1975. Vegetational zonation in the Front Range of the Rocky Mountains, Colorado. USA [in Polish] *Frag. Florist. et Geobot.* 21:99-142.
77. Bunin, J. E. 1974. The vegetation of the west slope of the Park Range, Colorado. *J. Colo.-Wyom. Acad. Sci.* 7(5):30 (Abstract).
78. Bunin, J. E. 1975a. The vegetation of the west slope of the Park Range, Colorado. Unpubl. dissertation, Univ. of Colo., Boulder. 2 pp.
79. Bunin, J. E. 1975b. Aspen forests of the west slope of the Park Range, north-central Colorado. Paper presented at the 1975 AIBS/ESA Meetings, 17-22 Aug. 1975, Oregon St. Univ., Corvallis. 22 pp.
80. Bunin, J. E. 1975c. Aspen forests of the west slope of the Park Range, northcentral Colorado. *Bull. Ecol. Soc. Am.* 56(2):48 (Abstract).

81. Burns, S. F. 1980. A comparison of mountain life zones of the Swiss Alps with the Colorado Front Range. *J. Colo.-Wyom. Acad. Sci.* 12(1):31 (Abstract).
82. Butler, J. R. and J. L. England. 1979. Vegetation map of the southeastern Uinta Basin, Utah and Colorado. USGS Misc. Investig. Series, Map I-1141.
83. Buttery, R. F. 1955. Range conditions and trends resulting from winter concentrations of elk in Rocky Mountain National Park, Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 117 pp.
84. Cacek, T. L. 1973. An ecological interpretation of north central Colorado. Unpubl. dissertation, Colorado St. Univ., Fort Collins. 261 pp.
85. Cancalossi, J. 1979. Biological evaluation for Coal Creek and Crescent damsites, Colorado. Unpubl. report prepared for USDI, Bur. of Recl., Denver, Colo.
86. Cannon, H. L. 1960. The development of botanical methods of prospecting for uranium on the Colorado Plateau. USGS Bull. 1085-A. 50p.
87. Carpenter, J. R. 1940. The grassland biome. *Ecol. Monogr.* 10:617-684.
88. Cary, M. 1911. A biological survey of Colorado. USDA Bur. Biol. Survey, No. Am. Fauna No. 33. 256 pp.
89. Christy, S. J. 1972a. Woody vegetation along the South Platte River in northeastern Colorado. *J. Colo.-Wyom. Acad. Sci.* 7(3):106 (Abstract).
90. Christy, S. J. 1972b. Plant communities of the South Platte River floodplain in Colorado. *J. Colo.-Wyom. Acad. Sci.* 7(2):31 (Abstract).
91. Christy, S. 1973. An analysis of the woody vegetation on the South Platte River flood plain in northeastern Colorado. Unpubl. thesis, Univ. of N. Colo., Greeley. 82 pp.
92. Clagg, H. B. 1975. Fire ecology in high-elevation forests in Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 137 pp.
93. Clagg, H. R. and D. R. Stevens. 1974. Fire management in Rocky Mountain National Park. *Tall Timbers Fire Ecol. Conf. No.* 14:77-86.
94. Clark, S. J. V. 1977. The vegetation of Rocky Flats, Colorado. Unpubl. thesis, Univ. of Colo., Boulder.
95. Clark, S. V., P. J. Webber, V. Komárková, and W. A. Weber. 1980. Map of mixed prairie grassland vegetation-Rocky Flats, Colorado. Univ. of Colo., Inst. of Arct. and Alp. Res. Occas. Paper No. 35. 66 pp.
96. Clary, W. P. 1978. Arizona fescue mountain rangelands. Pages 205-207 in D. N. Hyder, ed., *Proc. 1st Internat. Rangeland Congr.*, Denver, Colo., USA-14-18 Aug. 1978, Soc. for Range Mgmt., Denver.
97. Clements, F. E. 1904. Formation and succession herbaria. Univ. of Nebr., *Univ. Studies* IV(4):329-355.
98. Clements, F. E. 1910. The life history of lodgepole burn forests. USDA For. Serv. Bull. No. 79. 56 pp.
99. Clements, F. E., and G. W. Goldsmith. 1924. The phytometer method in ecology: the plant and community as instruments. Carnegie Inst. of Wash. Publ. No. 356 [Climaxes and climates of the Pike's Peak region, pp. 14-16].
100. Clements, F. E., and J. E. Weaver. 1924. Experimental vegetation: the relation of climaxes to climates. Carnegie Inst. of Wash. Pub. No. 355. 172 pp.
101. Cockerell, T. D. A. 1891. Notes on the flora of high altitudes in Custer County, Colorado. *Bull. Torr. Bot. Club* 18:167-174.
102. Cockerell, T. D. A. 1906. The alpine flora of Colorado. *Am. Nat.* 40:861-873.
103. Colorado River Water Conservation District. 1980. Application for license: project No. 2757, Juniper-Cross Mountain Project, Exhibit W-Environmental Report.
104. Cooper, W. S. 1908. Alpine vegetation in the vicinity of Long's Peak, Colorado. *Bot. Gaz.* 45:319-337.
105. Costello, D. F. 1944a. Natural revegetation of abandoned plowed land in the mixed prairie association of northeastern Colorado. *Ecology* 25:312-326.
106. Costello, D. F. 1944b. Important species of the major forage types in Colorado and Wyoming. *Ecol. Monogr.* 14:107-134.
107. Costello, D. F. 1954. Vegetation zones in Colorado. Pages iii-x in H. D. Harrington, ed., *Manual of the plants of Colorado*. Sage Books, Denver, Colo.
108. Costello, D. F., and H. E. Schwan. 1946. Conditions and trends on ponderosa pine ranges in Colorado. USDA For. Serv. Mimeo. 33 pp.
109. Costello, D. F., and G. T. Turner. 1941. Vegetation changes following exclusion of livestock from grazed ranges. *J. For.* 39:310-315.
110. Costello, D. F., and G. T. Turner. 1944. Judging condition and utilization of short-grass ranges on the central Great Plains. USDA Farmer's Bull. No. 1949. 21 pp.
111. Cox, B. J. 1968. A vegetational comparison of the Gothic and Galena Mountain area. *Trans. Mo. Acad. Sci.* 2:72-83.
112. Cox, C. F. 1933. Alpine plant succession on James Peak, Colorado. *Ecol. Monogr.* 3:299-372.
113. Crandall, C. S. 1897a. Natural reforestation on the mountains of northern Colorado. I. Garden and forest 10 (506): 437.
114. Crandall, C. S. 1897b. Natural reforestation on the mountains of northern Colorado. II. Garden and forest 10 (507):446-447.
115. Cringan, A. T., and R. L. Dix. 1975. Ecological theme analysis and inventory of potential natural landmarks of the Great Plains Natural Region. Report to the National Park Service, Contract No. 14-10-9-900-248 with Colo. St. Univ., Dept. of Fishery and Wildlife Biology, and Dept. of Botany and Plant Pathology. 465 pp.
116. Crouch, G. L. 1961a. Inventory and analysis of wildlife populations and habitat. South Platte River Valley. Final report, Fed. Aid in Wildlife Restor., Project W-104-R-1-2, Colo. Game & Fish Dept. 68 pp.
117. Crouch, G. L. 1961b. Wildlife populations and habitat conditions on grazed and ungrazed bottomlands in Logan County, Colorado. Unpubl. thesis, Colo. St. Univ. Fort Collins, Colo.
118. Crouch, G. L. 1978. Effects of protection from livestock grazing on a bottomland wildlife habitat in northeastern Colorado. Pages 118-125 in W. D. Gaul and S. J. Bissell, eds., *Lowland river and stream habitat in Colorado: a symposium*. (Greeley, Colo., 4-5 Oct. 1978). Colo. Chapt. Wildl. Soc. and Colo. Audubon Council.
119. Crouch, G. L. 1979a. Long-term changes in cottonwoods on a grazed and an ungrazed plains bottomland in northeastern Colorado. USDA For. Serv. Res. Note RM-370. Rocky Mt. For. & Range Exp. Stn., Fort Collins, Colo. 4 pp.

120. Crouch, G. L. 1979b. Changes in the vegetation complex of a cottonwood ecosystem on the South Platte River. Pages 19-22 in *Riparian and wetland habitats of the Great Plains: proceeding of the 31st annual meeting*. Great Plains Agric. Council, Forestry Committee, Gt. Plains Agric. Council. Publ. No. 91, Rocky Mt. For. & Range Expt. Stn., Fort Collins, Colo.
121. Cunningham, H. 1971. Soil-vegetation relationships of a bitterbrush-sagebrush association in northwestern Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 94 pp.
122. Currie, P. O. 1975. Grazing management of ponderosa pine-bunchgrass ranges of the central Rocky Mountains: the status of our knowledge. USDA For. Serv. Res. Paper RM-159, Rocky Mt. For. & Range Expt. Stn., Fort Collins. 24 pp.
123. Curry, R. R. 1962. Geobotanical correlations in the alpine and subalpine regions of the Tenmile Range, Summit County, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 123 pp + map.
124. Dahl, B., and J. J. Norris. 1965. The effect of grazing intensity on native sandhill ranges, Eastern Colorado Range Station. Colo. Agric. Expt. Sta. Prog. Rep. 162. 2 pp.
125. Daley, R. H. 1972. The native sand sage vegetation of eastern Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 62 pp.
126. Daniels, F. P. 1911. The flora of Boulder, Colorado, and vicinity. Univ. Missouri Studies, Sci. Series II(2). [Vegetation: p. 8-48].
127. Dart, D. J. 1977. Allelopathic effects of *Artemisia tridentata* ssp. *vaseyana* (Rydb.) Beetle and aspects of its ecology in Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 85 pp.
128. Daubenmire, R. F. 1943a. Vegetational zonation in the Rocky Mountains. Bot. Rev. 9:325-393.
129. Daubenmire, R. F. 1943b. Soil temperature versus drought as a factor determining lower altitudinal limits of trees in the Rocky Mountains. Bot. Gaz. 105:1-13.
130. Davis, M. L. 1981. Habitat diversity and its effects on the genetic and ecological structures of two successional populations of Douglas-fir. Unpubl. dissertation, Univ. of Colo., Boulder.
131. Dawson, R. E., E. Hotton, I. Takahashi, and C. Doty. 1979. Natural revegetation of a mixed-grass prairie. J. Colo.-Wyom. Acad. Sci. 11(1):38 (Abstract).
132. Dean, J. S., and D. O. Bowden, III. 1976. Dendrochronological analysis of wood samples from living trees in the Skull Creek Basin, Colorado. Final report prepared for the Craig, Colorado District Office, Bureau of Land Management by Laboratory of Tree-Ring Research, Univ. of Arizona, Tucson, Ariz.
133. De Leuw, Cather and Company. 1977. Vegetation sampling (Glenwood Canyon). Unpubl. report prepared for Colo. Div. of Highways, Glenwood Springs, Colo., by De Leuw, Cather, and Company, Consulting Engineers and Planners, Chicago, Ill.
134. Dillinger, K. C. 1970. Evaluation of mule deer habitat in Mesa Verde National Park. Unpubl. thesis, Colo. St. Univ., Fort Collins. 40 pp.
135. Dix, R. L. 1974. Regional ecological systems of Colorado. Pages 7-17 in P. O. Foss, ed., *Environment and Colorado: a handbook*. Env. Resources Center, Colo. St. Univ., Fort Collins.
136. Dix, R. L., and J. D. Richards. 1976. Possible changes in species structure of the subalpine forest induced by increased snowpack. Pages 311-322 in H. W. Steinhoff and J. D. Ives, eds., *Ecological impacts of snowpack augmentation in the San Juan Mountains, Colorado*. Final Report, San Juan Ecology Project, Colo. St. Univ., Fort Collins, to the USDI Bur. Recl., Div. of Atmos. Wat. Res. Mgmt., Denver, Colo.
137. Dixon, H. N. 1969. The growth of lodgepole pine in the Colorado Front Range as related to environment. Unpublished dissertation, Univ. of Colorado, Boulder. 120 pp.
138. Dixon, H. N. 1971. Flora of the San Luis Valley. Pages 133-136 in *New Mexico Geol. Soc. 22nd Field Conference Guidebook*.
139. Dortignac, E. J. 1956. Watershed resources and problems of the Upper Rio Grande Basin. Unpubl. report on file at the Rocky Mt. For. & Range Expt. Stn., Fort Collins, Colo.
140. Douglass, M. M. 1954a. Ecology of forest succession on a ridge in the subalpine forest of northern Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 134 pp.
141. Douglass, M. M. 1954b. Subalpine fir succession on a ridge in Boulder County, Colorado. J. Colo.-Wyom. Acad. Sci. 4(6):45-46 (Abstract).
142. Douglass, M. M., and J. R. Douglass. 1955. The distribution and growth of the limber pine in Colorado. J. Colo.-Wyom. Acad. Sci. 4(7):46-47 (Abstract).
143. Dunlap, N. J. 1962. A comparison of vegetation at Crested Butte and Gunnison, Colorado. Unpubl. thesis, Western State College, Gunnison, Colo.
144. Ebert, D. C. 1972. Primary productivity as a function of vegetation composition in an alpine tundra environment. J. Colo.-Wyom. Acad. Sci. 7(2):27-28 (Abstract).
145. Eddleman, L. E. 1963. Abrupt transitions in alpine communities. J. Colo.-Wyom. Acad. Sci. 5(4):39-40 (Abstract).
146. Eddleman, L. E. 1967. A study of phyto-edaphic relationships in alpine tundra of northern Colorado. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 148 pp.
147. Ellis, S. L., T. Shoemaker, and R. Sanz. 1979. Inventories of plants, birds, mammals, reptiles, and amphibians of the Unaweep Canyon Springs, Mesa County, Colorado. Unpubl. report prepared for the Colorado Natural Areas Program, Department of Natural Resources, State of Colorado, Denver. 25 pp.
148. Emerick, J. C. 1976. Effects of artificially increased winter snow cover on plant canopy architecture and primary production in selected areas of Colorado alpine tundra. Unpubl. dissertation, Univ. of Colo., Boulder. 193 pp.
149. Ensign, E. T. 1888. Report on the forest conditions of the Rocky Mountains. USDA, Forestry Div., Bull. No. 2 [Colorado: p. 115-137].
150. Erdman, J. A. 1962. Ecology of the pinyon-juniper woodland of Wetherill Mesa, Mesa Verde National Park, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 109 pp.
151. Erdman, J. A. 1964. Climatic differences of the Mesa Verde, and their effects on its vegetation. Bull. Ecol. Soc. Am. 45(3):89 (Abstract).
152. Erdman, J. A. 1969. Pinyon-juniper succession after fires on residual soils of the Mesa Verde, Colorado. Unpubl. dissertation, Univ. of Colo., Boulder. 81 pp.

153. Erdman, J. A. 1970. Pinyon-juniper succession after natural fires on residual soils of Mesa Verde, Colorado. Brigham Young Univ. Sci. Bull., Biol. Ser. 11(2): 1-26.
154. Evans, K. E. 1964. Habitat evaluation of the Greater Prairie Chicken in Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 98 pp.
155. Fareed, M., and M. M. Caldwell. 1975. Phenological patterns of two alpine tundra plant populations on Niwot Ridge, Colorado. N.W. Sci. 49:17-23.
156. Ferchau, H. A. 1973a. Vegetation. In G. L. Hayes, ed., Environmental analysis and potential impacts of proposed developments at Marble Ski Area. Unpubl. report, Thorne Ecol. Inst., Boulder, Colo.
157. Ferchau, H. A. 1973b. Vegetation inventory analysis and impact study of the Parachute Creek area, Garfield County, Colorado. Part II, Vol. 1, Chap. VI:1-77 in Colony environmental study. Unpubl. report prepared for Colony Development Operation, Atlantic Richfield Co., Operator, Denver, Colo. by Thorne Ecol. Inst., Boulder, Colo.
158. Ferchau, H. A. 1974. An ecological analysis of the vegetation, Piceance Creek Basin, Rio Blanco and Garfield counties, Colorado. V. 14. 19 pp. In Regional oil shale study. Unpubl. report to the State of Colo. by Thorne Ecol. Inst., Boulder, Colo.
159. Ferchau, H. A., and B. McLarty, 1980. O.C. Mine Environmental Report. Unpubl. report prepared for O.C. Mine, Gunnison, Colo. 24 pp.
160. Fink, B. 1907. A round trip between Iowa and Puget Sound. I. Westward bound. Plant World 10:49-58.
161. Fish, E. B. 1966. Secondary succession on upper Kiowa Creek watershed. Unpubl. thesis, Colo. St. Univ., Fort Collins, Colo. 102 pp.
162. Fitzgerald, J. P. 1978. Vertebrate associations in plant communities along the South Platte River in northeastern Colorado. Pages 73-88 in W. D. Graul and S. J. Bissell, eds., Lowland river and stream habitat in Colorado: a symposium. (Greeley, Colo., 4-5 Oct. 1978). Colo. Chap. Wildl. Soc. & Colo. Audubon Council.
163. Flowers, S. 1962. Vegetation of Morrow Point and Blue Mesa Reservoir basins of the upper Gunnison River, Colorado. Pages 12-46 in A. M. Woodbury, ed., Ecological studies of the flora and fauna of the Curecanti Reservoir basins, western Colorado. Univ. of Utah, Dept. of Anthropol., Anthropol. Papers No. 59 (Upper Colo. Ser. No. 8).
164. Flowers, S., H. H. Hall, and R. N. Reynolds. 1962. Plants found in Curecanti Reservoir basins, 1961. Pages 47-102 in A. M. Woodbury, ed., Ecological studies of the flora and fauna of the Curecanti Reservoir basins, western Colorado. Univ. of Utah, Dept. of Anthropol., Anthropol. Papers No. 59 (Upper Colo. Series No. 8).
165. Forsyth, J. K. 1980. Principal components analysis of subalpine vegetation on the east slope of the Colorado Rocky Mountains. Unpubl. dissertation, Univ. of Colo., Boulder. 101 pp.
166. Fraley, L., Jr. 1971. Response of shortgrass plains vegetation to chronic and seasonally administered gamma radiation. Unpubl. dissertation, Colo. St. Univ., Fort Collins.
167. Fritz, R. J. 1981. Alpine vegetational patterns around isolated tree islands on the eastern and western slopes of the Tenmile Range, Summit County, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 233 pp.
168. Fuller, G. D. 1930. A comparison of certain Rocky Mountain grasslands with the prairie of Illinois. Trans. Ill. Acad. Sci. 8:121-130.
169. Gable, D. J. 1978. Vegetation map of the Ward Quadrangle, Boulder County, Colorado. USGS Misc. Field Studies Map MF-940.
170. Gannett, H. 1878. Grazing lands of Colorado. Ch. 5 of "Report on the arable and pasture lands of Colorado." In F. V. Hayden, ed., Tenth Ann. Rep. of the U.S. Geol. and Geogr. Surv. of the Terr., embracing Colorado and parts of adjacent territories, U.S. Govt. Print. Off., Washington, D.C.
171. Gardner, W. J. 1905. Results of a Rocky Mountain forest fire studied fifty years after its occurrence. Proc. Soc. Am. For. 1:102-109.
172. Geist, J. M. 1965. Site-vegetation relationships in the montane zone of northern Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 104 pp.
173. Giese, T. G. 1975. The ecology of the Middle Blue River Valley, Summit County, Colorado, with an analysis of modifications due to powerline construction. Unpubl. thesis, Univ. of Colo., Boulder. 109 pp.
174. Giese, T. G., and J. W. Marr. 1973. Shale barrens of Summit County, Colorado. J. Colo.-Wyoming Acad. Sci. 7(4):26-27 (Abstract).
175. Giunta, B. C. 1968. Coactions of bitterbrush, ponderosa pine, and herbaceous vegetation. Unpubl. thesis, Colo. St. Univ., Fort Collins.
176. Goodding, L. N. 1923. An interesting area of limber pine extending into southwestern Nebraska. J. For. 21:175-176.
177. Graham, E. H. 1937. Botanical studies in the Uinta Basin of Utah and Colorado. Ann. Carnegie Museum 26:1-432.
178. Graul, W. D., and S. J. Bissell (tech. coord.) 1978. Lowland river and stream habitat in Colorado: a symposium (Greeley, Colo., 4-5 Oct. 1978). Colo. Chapt. Wildl. Soc. and Colo. Audubon Council. 195 pp.
179. Gray, A., and J. D. Hooker. 1880. The vegetation of the Rocky Mountain region and a comparison with that of other parts of the world. Bull. U.S. Geol. and Geogr. Surv. Terr. VI(1):1-77.
180. Green, N. E. 1969. Occurrence of small mammals on sandhill rangelands in eastern Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 39 pp.
181. Gregg, R. E. 1963. The ants of Colorado. Univ. of Colo. Press, Boulder. 74-119 pp + map.
182. Greller, A. M. 1974. Vegetation of roadcut slopes in the tundra of Rocky Mountain National Park, Colorado. Biol. Conserv. 6:84-93.
183. Greller, A. M., M. Goldstein, and L. Marcus. 1974. Snowmobile impact on three alpine tundra plant communities. Environ. Conserv. 1:101-110.
184. Griggs, R. F. 1955. Competition and succession on the fellfield of Rocky Mountain National Park. Bull. Ecol. Soc. Am. 36(3):76 (Abstract).
185. Griggs, R. F. 1956. Competition and succession on a Rocky Mountain fellfield. Ecol. 37:8-20.
186. Groeneveld, D. P., and P. V. Krebs. 1974. Forest cover-type mapping using color infrared aerial photography. J. Colo.-Wyom. Acad. Sci. 7(5):46 (Abstract).

187. Gross, J. E. 1955. A vegetation survey of the Poudre bighorn sheep range. Paper for course WM-190D, Colo. St. Univ., Fort Collins, Colo. 65 pp.
188. Gysel, L. W. 1960. An ecological study of the winter range of elk and mule deer in the Rocky Mountain National Park. J. For. 58:696-703.
189. Hadley, R. F., and F. A. Branson. 1965. Surficial geology and microclimatic effects on vegetation, soils, and geomorphology in the Denver, Colorado area. Pages 56-63 in C. B. Schulz and H. T. Smith, eds., Guidebook for one-day field conferences-Boulder area, Colorado. VIIth Int. Assoc. for Quat. Res. Congress. Nebraska Acad. Sci., Lincoln.
190. Hammerson, G. A. 1979. Structure and reproduction of "tree island" populations of Engelmann spruce (*Picea engelmannii*) and subalpine fir (*Abies lasiocarpa*) in the lower alpine tundra of Colorado. J. Colo.-Wyom. Acad. Sci. 11(1):23-24 (Abstract).
191. Hansen, R. M., and A. L. Ward. 1966. Some relations of pocket gophers to rangelands on Grand Mesa, Colorado. Colo. Agric. Expt. Stn. Tech. Bull. No. 88. 22 pp.
192. Hansen-Bristow, K. J. 1981. Environmental controls influencing the altitude and form of the forest-alpine tundra ecotone, Colorado Front Range. Unpubl. dissertation, Univ. of Colo., Boulder. 274 pp.
193. Hanson, H. C. 1929. Range resources of the San Luis Valley. Colo. Agric. Expt. Stn. Bull. No. 335. 61 pp.
194. Hanson, H. C. 1955. Characteristics of the *Stipa comata*-*Bouteloua gracilis*-*Bouteloua curtipendula* association in northern Colorado. Ecol. 36:269-280.
195. Hanson, H. C. 1957. The use of basic principles in the classification of range vegetation. J. Range Mgmt. 10:26-33.
196. Hanson, H. C. 1959. Variation within a ponderosa pine forest in Colorado. Bull. Ecol. Soc. Am. 40(3):71-72 (Abstract).
197. Hanson, H. C., and W. S. Ball. 1928. An application of Raunkiaer's law of frequency to grazing studies. Ecology 9:467-473.
198. Hanson, H. C. and E. Dahl. 1957. Some grassland communities in the mountain-front zone in northern Colorado. Vegetatio 7:249-270.
199. Hanson, H. C., L. D. Love, and M. S. Morris. 1931. Effects of different systems of grazing by cattle upon a western wheat-grass type of range near Fort Collins, Colorado. Colo. Agric. Expt. Sta. Bull. No. 377. 82 pp.
200. Hanson, H. C., and F. B. Smith. 1928. Some types of vegetation in relation to the soil profile in northern Colorado. J. Am. Soc. Agron. 20:142-151.
201. Harmon, W. E. 1980. Survey of the flora and vegetation of the Bodo Wildlife Management Area. Unpubl. report prepared for The Nature Conservancy, Denver, Colo. 40 pp.
202. Harrington, F. A., Jr. 1978. Ecological segregation of ungulates in alpine and subalpine communities. Unpubl. dissertation, Colo. St. Univ., Fort Collins.
203. Harrington, H. D. 1964. Manual of the plants of Colorado. Sage Books, Swallow Press, Chicago. 2d ed. 666 pp.
204. Harris, J. T. 1958. Analysis of elk winter range, South Fork of the White River, Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 136 pp.
205. Heerwagen, A. 1958. Management as related to range site in the central plains of eastern Colorado. J. Range Mgmt. 11:5-9.
206. Heifner, M. A. 1974. Ecological studies in Colorado alpine willow marshes. Unpubl. thesis, Colo. St. Univ., Fort Collins. 66 pp.
207. Helm, D. J. 1977. Variations in alpine snowfield vegetation. Unpubl. thesis, Colo. St. Univ., Fort Collins. 95 pp.
208. Helm, D. J. 1981. Vegetation diversity indexes in several vegetation types of western Colorado. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 113 pp.
209. Hess, K. 1981. Phyto-edaphic study of habitat types of the Arapaho-Roosevelt National Forest, Colorado. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 558 pp.
210. Hess, K., and C. H. Wasser. 1982. Habitat type classification of a selected part of the White River-Arapaho National Forest. Unpubl. report on file at the U.S. For. Serv., Region 2, Range and Wildlife Management, Denver, Colo.
211. Hodson, E. R., and J. H. Foster. 1910. Engelmann spruce in the Rocky Mountains. USDA For. Serv. Circ. 170. 23 pp.
212. Hoff, C. C. 1957. A comparison of soil, climate, and biota of conifer and aspen communities in the central Rocky Mountains. Am. Midl. Nat. 58:115-140.
213. Hoffman, G. R., and R. A. Alexander. 1980. Forest vegetation of the Routt National Forest in northwestern Colorado: a habitat type classification. USDA For. Serv. Res. Paper RM-221, Rocky Mt. For. and Range Exp. Stn., Fort Collins, Colo. 41 pp.
214. Hoffman, G. R., and G. J. Tomlinson. 1966. A bibliography of vegetational studies of Colorado. S.W. Natur. 11:228-237.
215. Holm, T. 1908. Studies in the Gramineae. IX. The Gramineae of the alpine region of the Rocky Mountains in Colorado. Bot. Gaz. 46:422-444.
216. Holm, T. 1927. The vegetation of the alpine region of the Rocky Mountains in Colorado. Nat. Acad. Sci. Mem. 19(3):1-45 + 7 plates.
217. Holway, J. G. 1960. Phenological observations on the major alpine species in the vicinity of False Mummy Pass, Rocky Mountain National Park, Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 84 pp.
218. Holway, J. G. 1961. Phenological observations on alpine species. J. Colo.-Wyom. Acad. Sci. 5(2):38-39 (Abstract).
219. Holway, J. G. 1962a. Phenology of Colorado alpine plants. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 154 pp.
220. Holway, J. G. 1962b. Effects of snow and diverted melt-water in the alpine tundra. J. Colo.-Wyom. Acad. Sci. 5(3):33 (Abstract).
221. Holway, J. G., and R. T. Ward. 1963. Snow and meltwater effects in an area of Colorado alpine. Am. Midl. Nat. 69:189-197.
222. Holway, J. G., and R. T. Ward. 1965. Phenology of alpine plants in northern Colorado. Ecology 46:73-83.
223. Hyder, D. N., R. E. Bement, E. E. Remmenga, and D. F. Hervey. 1975. Ecological responses of native plants and guidelines for management of shortgrass range. USDA Tech. Bull. No. 1503. 87 pp.

224. Hyder, D. N., R. E. Bement, E. E. Remmenga, and C. Terwilliger, Jr. 1966. Vegetation-soils and vegetation-grazing relations from frequency data. *J. Range Mgmt.* 19:11-17.
225. Iorns, W. V., C. H. Hembree, and G. L. Oakland. 1965. Water resources of the Upper Colorado River Basin-Technical Report. USGS Prof. Paper 441. (Plates 5 & 9-vegetation maps).
226. Isaacson, H. E. 1967. Ecological provinces within the pinyon-juniper type of the Great Basin and Colorado Plateau. Unpubl. thesis, Utah St. Univ., Logan. 44 pp.
227. Ives, J. D. 1978. Remarks on the stability of timberline. Pages 313-317 in C. Troll and W. Lauer, eds., *Geocological relations between the Southern Temperate Zone and the tropical mountains*. Franz Steiner Verlag GMBH, Wiesbaden.
228. Ives, R. L. 1941a. Forest replacement rates in the Colorado headwaters area. *Bull. Torrey Bot. Club* 68:407-408.
229. Ives, R. L. 1941b. Vegetative indicators of sification. *J. Geomorph.* 4:128-132.
230. Ives, R. L. 1941c. Rapid identification of the montane-subalpine zone boundary. *Bull. Torr. Bot. Club.* 68:195-197.
231. Ives, R. L. 1942a. Atypical subalpine environments. *Ecology* 23:89-96.
232. Ives, R. L. 1942b. The beaver-meadow complex. *J. Geomorph.* 5:191-203.
233. Ives, R. L. 1946. Botanical indicators of air drifts. *Ecology* 27:364-369.
234. Jack, J. G. 1900. Pikes Peak, Plum Creek, and South Platte reserves. U.S. Geol. Survey 20th Ann. Rep., Part V:39-115.
235. Jackson, A. S. 1965. Wildfires in the Great Plains grasslands. Tall Timbers Fire Ecol. Conf. 4:241-259.
236. Jackson, J. R. 1972a. Vegetation of the flood plain of the South Platte River in the proposed Narrows Reservoir site. Unpubl. thesis, Univ. of N. Colo., Greeley. 83 pp.
237. Jackson, J. R. 1972b. The vegetation of the site of the proposed Narrows Reservoir. *J. Colo.-Wyom. Acad. Sci.* 7(2):24 (Abstract).
238. Jackson, J. R., and I. E. Lindauer. 1978. Vegetation of the flood plain of the South Platte River in the proposed Narrows Reservoir site. *Trans. Missouri Acad. Sci.* 12:37-46.
239. James, J. W., and J. W. Marr. 1966. Route 40 mountain environmental transect: Colorado and Utah. Report prepared for INSTAAR, Univ. of Colo., Boulder. 218 pp + appendices.
240. James, S. L. 1930. The herbaceous vegetation of two mesas near Boulder, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 41 pp.
241. Jameson, D. A. (Coordinator). 1969. General description of the Pawnee site. U.S. IBP Grassland Biome Tech. Rep. No. 1. Colo. St. Univ., Fort Collins. 22 pp.
242. Jefferies, N. W. 1965. Herbage production on a gambel oak range in southwestern Colorado. *J. Range Mgmt.* 18:212-213.
243. Jennings, R. H. 1978. Vegetation. Pages 1-103 in H. A. Ferchau, ed., *Buttes Gas and Oil Iron Hill-Powderhorn Environmental Study 1977*, Western St. Coll., Gunnison, Colo. Vol. II, Ch. 8.
244. Jennings, R. H. 1979a. Supplement to Chapter 8-Vegetation. In H. A. Ferchau, ed., *Powderhorn II-Iron Hill-Powderhorn Environmental Study*, Western St. Coll., Gunnison, Colo.
245. Jennings, R. H. 1979b. Vegetation of the Iron Hill complex, Powderhorn, Colorado: an environmental baseline inventory and analysis. Unpubl. thesis, Western State College, Gunnison, Colo. 211 pp.
246. Johnson, A. W. 1956. Ecology of subalpine forest communities in the Silver Lake Valley of the Front Range in Colorado. Unpubl. dissertation, Univ. of Colo., Boulder. 121 pp.
247. Johnson, D. L. 1973. Floodplain communities of the upper Roaring Fork River, near Aspen, Colorado. Unpubl. report, Dept. of Envir., Pop., and Organismic Biol., Univ. of Colorado, Boulder.
248. Johnson, D. L., and C. Mutel. 1973. Preliminary description and inventory of the ecosystems of Walton Creek canyon and adjacent areas, Steamboat Springs, Colorado. Unpubl. report prepared for Applied Science and Resource Planning, Inc., Sacramento, Calif. 29 pp.
249. Johnson, K. L. 1970. Alpine vegetation and soils of Mesa Seco Plateau, San Juan Mountains, Colorado. Unpubl. dissertation, Univ. of Illinois, Urbana. 217 pp.
250. Johnson, K. R. 1932a. Ecology of a glacial lake in central Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 30 pp.
251. Johnson, K. R. 1932b. Plant ecology of a glacial lake. *J. Colo.-Wyom. Acad. Sci.* 1(4):13 (Abstract).
252. Johnson, K. R. 1936. Ecology of a glacial lake in central Colorado. *Univ. of Colo. Studies* 23:235-243.
253. Johnson, K. R. 1939. Plant ecology of northwestern Colorado lakes and surrounding areas. Unpubl. dissertation, Univ. of Colo., Boulder. 138 pp.
254. Johnson, K. R. 1941. Vegetation of some mountain lakes and shores in northwestern Colorado. *Ecology* 22:306-316.
255. Johnson, W. M. 1945. Natural revegetation of abandoned crop land in the ponderosa pine zone of the Pike's Peak region in Colorado. *Ecology* 26:363-374.
256. Johnson, W. M. 1953. Effect of grazing intensity upon vegetation and cattle gains on ponderosa pine-bunchgrass ranges of the Front Range of Colorado. USDA Circ. No. 929. 36 pp.
257. Johnson, W. M. 1956. The effect of grazing intensity on plant composition, vigor, and growth of pine-bunchgrass ranges in central Colorado. *Ecology* 37:790-798.
258. Johnson, W. M., and G. E. Klipple. 1946. The natural revegetation of abandoned cropland in the ponderosa pine zone of the Pike's Peak region. *J. Colo.-Wyom. Acad. Sci.* 3(3):39-40 (Abstract).
259. Johnson, W. M., and C. H. Niederhof. 1941. Some relationships of plant cover to run-off, erosion, and infiltration on granitic soils. *J. For.* 39:854-858.
260. Johnson, W. M., and E. H. Reid. 1958. Herbage utilization on pine-bunchgrass ranges of Colorado. *J. For.* 56:647-651.
261. Johnson, W. M., and E. H. Reid. 1964. Range condition classification of bunchgrass range at the Manitou Experimental Forest in Colorado. *J. Range Mgmt.* 17:137-141.

262. Johnston, B. C. 1978. Vegetation map of Colorado. Appendix I-Part 1, p. 1-5, + map in D. W. Crum-packer, ed., A nature reserve system for Colorado. Report to the Natural Areas Program of the Department of Natural Resources, State of Colorado.
263. Judd, B. I. 1974. Plant succession of old fields in the dust bowl. *S.W. Natur.* 19:227-239.
264. Kahler, L. J. 1973. Correlation of slope exposure with differences in the composition of the vegetation community at 7000 feet in Clear Creek Canyon west of Golden, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 105 pp.
265. Keammerer, D. B. 1976. Niwot Ridge vegetation map. 1:24000. Unpubl. manuscript on file at Inst. of Arct. and Alp. Res., Univ. of Colo., Boulder (reproduced in Komárkova and Webber 1978. *Arct. and Alp. Res.* 10:7).
266. Keammerer, W. R. 1974a. Vegetation of the Grand Valley area. Pages 73-117 in *Ecological inventory of the Grand Valley area*. Unpubl. report prepared for the Colony Development Operation, Atlantic Richfield Co., Operator, Denver, Colo.
267. Keammerer, W. R. 1974b. Vegetation of Parachute Creek Valley. Pages 4-91 in *Environmental inventory and impact analysis of a proposed utilities corridor in Parachute Creek Valley, Colorado*. Unpubl. report prepared for Colony Development Operation, Atlantic Richfield Co., Operator, Denver, Colo.
268. Keammerer, W. R. 1977. Final report: vegetation baseline studies, oil shale tract C-b. Unpubl. report, Stoecker-Keammerer & Assoc., Ecological Consultants, Boulder, Colo. 183 pp.
269. Keammerer, W. R., and D. B. Keammerer. 1978. DOW property vegetation studies: endangered species survey and vegetation mapping 1978. Unpubl. report prepared for Colony Development Operation, Atlantic Richfield Co., Operator, Denver, Colo., by Stoecker-Keammerer & Assoc., Ecological Consultants, Boulder, Colo. 20 pp.
270. Keammerer, W. R., and D. B. Keammerer. 1980. Preliminary vegetation studies on the Naval Oil Shale Reserve. Unpubl. report prepared for TOSCO Corporation, Denver, Colo., by Stoecker-Keammerer & Assoc., Ecological Consultants, Boulder, Colo. 14 pp.
- 271a. Keammerer, W. R., and S. J. Peterson. 1981. Vegetation studies on the Naval Oil Shale Reserve. Unpubl. report prepared for TRW Energy Systems Group, McLean, Virginia, by Stoecker-Keammerer & Assoc., Ecological Consultants, Boulder, Colo. 77 pp.
- 271b. Keammerer, W. R., and R. E. Stoecker. 1975. Vegetation and wildlife studies along proposed corridors for oil shale tract C-b. Unpubl. report prepared for Shell Oil Co., Operator, Denver, Colo., by Stoecker-Keammerer & Assoc., Ecological Consultants, Boulder, Colo. 86 pp.
272. Keammerer, W. R., and R. E. Stoecker. 1980. Vegetation and wildlife studies for the Mount Emmons project. Unpubl. report prepared for AMAX Environmental Services, Inc. by Stoecker-Keammerer & Assoc., Ecological Consultants, Boulder, Colo. 3 vols.
273. Keith, J. R. 1969. The vegetation of South Table Mountain, Jefferson County, Colorado. *J. Colo.-Wyom. Acad. Sci.* 6(2):14 (Abstract).
274. Kellogg, R. S. 1905. Forest belts of western Kansas and Nebraska. *USDA For. Serv. Bull.* 66. 44 pp.
275. Kiener, W. 1935. Structural analysis of alpine vegetation on Long's Peak, Colorado. *J. Colo.-Wyom. Acad. Sci.* 2(1):50-51 (Abstract).
276. Kiener, W. 1937. On the history of the vegetation of Rocky Mountain National Park. *The Colo. Forester* 1937: 24-25.
277. Kiener, W. 1939. Sociological studies of the alpine vegetation on Long's Peak. Unpubl. dissertation, Univ. of Nebraska, Lincoln.
278. Kiener, W. 1967. Sociological studies of the alpine vegetation on Long's Peak. *Univ. Nebr. Stud. n.s.* No. 34. 75 pp.
279. Kinraide, T. B. 1977. Cholla cactus (*Opuntia imbricata* (Haw.) DC.) in El Paso County, Colorado: autecology and preliminary phytosociology. *Bull. Ecol. Soc. Am.* 58(2):40 (Abstract).
280. Kinraide, T. B. 1978. The ecological distribution of cholla cactus (*Opuntia imbricata* (Haw.) DC.) in El Paso County, Colorado. *S.W. Natur.* 23:117-134.
281. Klemmedson, J. O. 1953. Interrelations of vegetation, soils, and range conditions induced by grazing. Unpubl. thesis, Colo. St. Univ., Fort Collins. 178 pp.
282. Klemmedson, J. O. 1956. Interrelations of vegetation, soils, and range conditions induced by grazing. *J. Range Mgmt.* 9:134-138.
283. Klipple, G. E. 1964. Early- and late-season grazing versus season-long grazing of short-grass vegetation on the central Great Plains. *USDA For. Serv. Res. Paper RM-11, Rocky Mt. For. & Range Exp. Stn., Fort Collins, Colo.* 16 pp.
284. Klipple, G. E., and D. F. Costello. 1960. Vegetation and cattle responses to different intensities of grazing on short-grass ranges on the central Great Plains. *USDA Tech. Bull.* No. 1216. 82 pp.
285. Klish, M. W. 1977. The vegetation of Summit County, Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 103 pp.
286. Knowles, P., and M. C. Grant (in press). Age and size structure analyses of Engelmann spruce, ponderosa pine, lodgepole pine, and limber pine in Colorado. *Ecology*.
287. Komárková, V. 1976. Alpine vegetation of the Indian Peaks Area, Front Range, Colorado Rocky Mountains. Unpubl. dissertation, Univ. of Colo., Boulder. 655 pp.
288. Komárková, V. 1979. Alpine vegetation of the Indian Peaks area, Front Range, Colorado Rocky Mountains. *Flora et vegetatio mundi* 7, R. Tuxen, ed., 2 vols. Cramer, Vaduz. 591 pp.
289. Komárková, V. 1980. Classification and ordination in the Indian Peaks area, Colorado Rocky Mountains. *Vegetatio* 42:149-163.
290. Komárková, V., and P. J. Webber. 1978. An alpine vegetation map of Niwot Ridge, Colorado. *Arct. and Alp. Res.* 10:1-29.
291. Krebs, P. H. 1972. Dendrochronology and the distribution of bristlecone pine (*Pinus aristata* Engelm.) in Colorado. Unpubl. dissertation, Univ. of Colorado, Boulder. 211 pp.
292. Krebs, P. V. 1973. Vegetation. Pages 63-79 + map in R. F. Madole, ed., *Environmental inventory and land use recommendations for Boulder county, Colorado*. Univ. of Colo., Inst. of Arct. and Alp. Research Occas. Paper No. 8.

293. Krebs, P. V., D. P. Groeneveld, and J. P. Spencer. 1976. Ecological overview. Part I. Vegetation inventory. Pages 81-86 in H. W. Steinhoff and J. D. Ives, eds., Ecological impacts of snowpack augmentation in the San Juan Mountains, Colorado. Final Report, San Juan Ecol. Proj., Colo. St. Univ., Fort Collins, to the USDI Bur. Recl., Div. of Atmos. Wat. Res. Mgmt., Denver, Colo.
294. Küchler, A. W., and J. McCormick. 1965. Vegetation maps of North America. Univ. of Kansas Publ., Library Series No. 21 [Colorado: p. 162-173].
295. Lamborn, C. R. 1962. Theoretical cross-section transect of the Blue Mesa Reservoir basin in Colorado. Pages 120-134 in A. M. Woodbury, ed., Ecological studies of the flora and fauna of the Curecanti Reservoir basins, western Colorado. Univ. of Utah, Dept. of Anthropol., Anthropol. Papers No. 59 (Upper Colo. Ser. No. 8).
296. Langenheim, J. H. 1949. Physiography and plant ecology on a subalpine earthflow, Gunnison County, Colorado. Unpubl. thesis, Univ. of Minnesota, Minneapolis.
297. Langenheim, J. H. 1953. Description of the plant communities and environments of the Crested Butte area, Gunnison County, Colorado. Unpubl. dissertation, Univ. of Minn., Minneapolis. 223 pp.
298. Langenheim, J. H. 1955. Flora of the Crested Butte quadrangle, Colorado. Madrono 13:64-78.
299. Langenheim, J. H. 1956. Plant succession on a subalpine earthflow in Colorado. Ecology 37:301-317.
300. Langenheim, J. H. 1957. A serial system of classification applied to the vegetation of the Crested Butte area, Colorado. Bull. Ecol. Soc. Am. 38:82 (Abstract).
301. Langenheim, J. H. 1962. Vegetation and environmental patterns in the Crested Butte area, Gunnison County, Colorado. Ecol. Monogr. 32:249-285.
302. Lanier, J. E. 1978. Population dynamics of Rocky Mountain Douglas-fir (*Pseudotsuga menziesii* var. *glauca*) along an elevational gradient in the Front Range of Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 97 pp.
303. Lanier, J. E., D. G. Steward, D. A. Boyce, and J. W. Marr. 1977. A description of the ecosystems of the Homestake Creek area, Eagle County, Colorado. J. Colo.-Wyom. Acad. Sci. 9:36 (Abstract).
304. Larson, L. L. 1974. Discriminant and hierarchical analyses in vegetation classification. Unpubl. thesis, Colo. St. Univ., Fort Collins. 103 pp.
305. Larson, L. L. 1978. Vegetative variability along a gradient from lodgepole pine-spruce fir. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 101 pp.
306. Laven, R. D., P. N. Omi, J. G. Wyant, and A. S. Pinkerton. 1980. Interpretation of fire scar data from a ponderosa pine ecosystem in the central Rocky Mountains, Colorado. Pages 46-49 in M. A. Stokes and J. Dieterich (Tech. Coord.) Proceedings of the fire history workshop. 20-24 Oct. 1980, Tucson, Ariz. USDA For. Serv. Gen. Tech. Rept. RM-81, Rocky Mountain For. and Range Exp. Stn., Fort Collins, Colo.
307. Legg, T. E., and R. G. Baker. 1980. Palynology of Pinedale sediments, Devlin's Park, Boulder County, Colorado. Arct. and Alp. Res. 12:319-333.
308. Leonard, H. A. 1916. Vegetation of the aspen groves at Tolland, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 17 pp.
309. Lindauer, I. E. 1967. Ecology of phreatophytes on the Arkansas River in southeastern Colorado. J. Colo.-Wyom. Acad. Sci. 5(8):65 (Abstract).
310. Lindauer, I. E. 1968. A survey of the woody phreatophytes in the lower Arkansas River Valley of Colorado. J. Colo.-Wyom. Acad. Sci. 6(1):51-52 (Abstract).
311. Lindauer, I. E. 1970. The vegetation of the flood plain of the Arkansas River in southeastern Colorado. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 92 pp.
312. Lindauer, I. E. 1978. A comparison of the vegetative communities of the South Platte and Arkansas River drainages in eastern Colorado. Pages 56-72 in W. D. Graul and S. J. Bissel, eds., Lowland river and stream habitat in Colorado: a symposium. (Greeley, Colo. 4-5 Oct. 1978). Colo. Chapt. Wildl. Soc. and Colo. Audubon Council.
313. Lindauer, I. E., and S. J. Christy. 1972. An analysis of the woody vegetation on the South Platte River flood plain in northeastern Colorado. Unpubl. report to the U.S. Bureau of Reclamation, Denver, Colo., by the Dept. of Biol. Sci., Univ. of N. Colo., Greeley.
314. Lindauer, I. E., and J. P. Fitzgerald. 1974. Ecological survey and analysis of terrestrial communities at the Weld County (Hardin) proposed reservoir site. Unpubl. report to the U.S. Bureau of Reclamation, Denver, Colo., by the Dept. of Biol. Sci., Univ. of N. Colo., Greeley. 45 pp.
315. Lindauer, I. E., J. P. Fitzgerald, and L. L. Lindauer. 1973. Ecological analyses of flood plain communities, Narrows Reservoir Site, Colorado. Unpubl. report to the U.S. Bureau of Reclamation, Denver, Colo. by the Dept. of Biol. Sci., Univ. of N. Colo., Greeley. 108 pp.
316. Lindauer, I. E., and R. T. Ward. 1968. A survey of the woody phreatophytes in the lower Arkansas River Valley of Colorado. Unpubl. report to the U.S. Bureau of Reclamation, Denver, Colo., by the Dept. of Botany and Plant Pathology, Colo. St. Univ., Fort Collins, Colo. 46 pp.
317. Livingston, R. B. 1941. The effect of altitude on the composition of grasslands on the plains of central Colorado. Unpubl. thesis, Duke Univ., Durham, N.C.
318. Livingston, R. B. 1947. An ecological study of the Black Forest region and adjacent plains. Unpubl. dissertation, Duke Univ., Durham, N.C. 134 pp.
319. Livingston, R. B. 1949. An ecological study of the Black Forest, Colorado. Ecol. Monogr. 19:123-144.
320. Livingston, R. B. 1952. Relict true prairie communities in central Colorado. Ecology 33:72-86.
321. Loder, C. W. 1964. Alpine tundra of Cottonwood Pass, Colorado. Unpubl. thesis, Western State College, Gunnison, Colo. 139 pp.
322. Loveless, C. M. 1963. Ecological characteristics of a selected mule deer winter range. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 318 pp.
323. Loveless, C. M. 1967. Ecological characteristics of a mule deer winter range. Colo. Dept. Game, Fish and Parks, Tech. Publ. No. 20. 125 pp.
324. Lusby, G. C., G. T. Turner, J. R. Thompson, and V. H. Reid. 1963. Hydrologic and biotic characteristics of grazed and ungrazed watersheds of the Badger Wash Basin in western Colorado, 1953-1958. U.S. Geol. Survey Water-Supply Paper 1532-B.

325. Luti, R. 1953. Ecological features of the vegetation of a ridge in the montane forest of Boulder County, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 100 pp.
326. Lutz, F. E. 1922. Altitude in Colorado and geographical distribution. *Bull. Am. Mus. Nat. Hist.* 46:335-366.
327. McCullough, H. A. 1948. Plant succession on fallen logs in a virgin spruce-fir forest. *Ecol.* 29:508-513.
328. McCullough, H. A. 1952. The Gothic Natural Area. *Living Wilderness* 17(41):13-20.
329. McCullough, H. A. 1956. Survey of the Gothic Natural Area. *The Scientific Monthly* 82:25-32.
330. McEachern, K. 1979. Population biology of *Populus sargentii* in northeastern Colorado. Unpubl. undergrad. thesis (honor). Univ. of N. Colo., Greeley. 41 pp.
331. McGinnies, W. J., L. W. Osborn, and W. A. Berg. 1976. Plant-soil-microsite relationships on a salt-grass meadow. *J. Range Mgmt.* 29:395-400.
332. McHenry, D. E. 1929. The vegetation of Gregory Canyon, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 35 pp.
333. McHenry, D. E. 1930. The vegetation of Gregory Canyon, Colorado. *J. Colo.-Wyom. Acad. Sci.* 1(2):14 (Abstract).
334. McIntosh, A. C. 1923. Vegetation at different elevations in Boulder Canyon. Unpubl. thesis, Univ. of Colorado, Boulder. 35 pp.
335. McNeal, D. W., Jr. 1976. Annotated check list of the alpine vascular plants of Specimen Mountain, Rocky Mountain National Park, Colorado. *S.W. Natur.* 20:423-435.
336. Maher, L. J., Jr. 1961. Pollen analysis and post-glacial vegetation history in the Animas Valley region, southern San Juan Mountains, Colorado. Unpubl. dissertation, Univ. of Minn., St. Paul. 85 pp.
337. Maher, L. J., Jr. 1963. Pollen analyses of surface materials from the southern San Juan Mountains, Colorado. *Geol. Soc. Am. Bull.* 74:1485-1504.
338. Maher, L. J., Jr. 1972. Absolute pollen diagram of Redrock Lake, Boulder County, Colorado. *Quat. Res.* 2:531-553.
339. Mallory, G. F. 1981. A vegetation inventory and analysis of the Homestake Pitch uranium project, Saguache County, Colorado. Unpubl. thesis, Western State College, Gunnison, Colo. 129 pp.
340. Markgraf, V. 1980. Lower timberline paleoenvironmental changes during the last 15,000 years in central Colorado. *Bull. Ecol. Soc. Am.* 61(2):107-108 (Abstract).
341. Marr, J. W. 1958. Lee slope stands in the upper part of the forest-tundra ecotone on Niwot Ridge, Boulder County, Colorado. *J. Colo.-Wyoming Acad. Sci.* 4(10):41 (Abstract).
342. Marr, J. W. 1959. Forms of tree islands in alpine tundra. *J. Colo.-Wyoming Acad. Sci.* 4(11):34 (Abstract).
343. Marr, J. W. 1964a. Utilization of the Front Range tundra, Colorado. Pages 109-118 in D. J. Crisp, ed., *Grazing in terrestrial and marine environments*. Blackwell Sci. Publ., Oxford, Eng.
344. Marr, J. W. 1964b. The vegetation of the Boulder area. Univ. of Colo. Museum Leaflet 13:34-42.
345. Marr, J. W. 1965. Forest ecology of the Front Range. Pages 16-20 in C. B. Schulz and H. T. Smith, eds., *Guidebook for one-day field conferences—Boulder area, Colorado*. VIIIth Int. Assoc. for Quat. Res. Congress, Nebraska Acad. Sci., Lincoln.
346. Marr, J. W. 1967. Ecosystems of the east slope of the Front Range in Colorado. Univ. of Colo. Studies, Series in Biology No. 8. 134 pp.
347. Marr, J. W. 1977a. The development and movement of tree islands near the upper limit of tree growth in the southern Rocky Mountains. *Ecology* 58:1159-1164.
348. Marr, J. W. 1977b. A classification of tree island forms in the high mountains of Colorado. *J. Colo.-Wyom. Acad. Sci.* 9(1):35 (Abstract).
349. Marr, J. W., D. M. Armstrong, H. Chronic, J. Chronic, R. W. Pennak, W. A. Weber, R. E. Marr, D. Steward, and J. C. Meyer. 1980. Natural landmarks of the southern Rocky Mountain region. Unpubl. report prepared for the U.S. Dept. Int., Heritage Conserv. and Recreation Service, Denver, Colo., by Thorne Ecol. Inst., Boulder, Colo. 736 pp.
350. Marr, J. W., D. A. Boyce, and J. W. Todd. 1973. Preliminary report on the Redcliff project, Eagle County, Colorado. Report prepared for the David E. Fleming Co., Denver, Colo., and the Colo. River Water Conserv. District, Glenwood Springs, Colo., by the Dept. of EPO Biol., Univ. of Colo., Boulder. 9 pp.
351. Marr, J. W., and W. S. Boyd. 1979. Vegetation in the greater Denver area, Front Range Urban Corridor, Colorado. USGS Misc. Investig. Series, Map I-856-I.
352. Marr, J. W., and D. L. Buckner. 1974a. Revegetation of ecosystems modified by pipeline construction in western Colorado and southeastern Utah. *J. Colo.-Wyo. Acad. Sci.* 7(5):30-31 (Abstract).
353. Marr, J. W., and D. L. Buckner. 1974b. Colorado to Wyoming pipeline corridor study. Unpubl. report prepared for Colony Development Operation, Atlantic Richfield Co., Denver by Thorne Ecol. Inst., Boulder, Colo. 79 pp. + appendices.
354. Marr, J. W., D. L. Buckner, and D. L. Johnson. 1974. Ecological modification of alpine tundra by pipeline construction. Pages 10-17 in W. A. Berg, J. A. Brown, and R. L. Cuany, eds., *Proceedings of a workshop on revegetation of high-altitude disturbed lands*. Colo. St. Univ., Environ. Res. Center Inf. Series No. 10.
355. Marr, J. W., D. L. Buckner, and C. Mutel. 1973. Ecological analysis of potential oil products corridors in Colorado and Utah. Unpubl. report prepared for Colony Development Operation, Atlantic Richfield Co., Denver, Colo. 96 pp. & App. A, B, C.
356. Marr, J. W., D. L. Buckner, and C. Mutel. 1974. Reaction of vegetation and soils to impact from construction and operation of pipelines in western Colorado and eastern Utah. Unpubl. report prepared for Colony Development Operation, Atlantic Richfield Co., Denver, Colo. 138 pp.
357. Marr, J. W., J. Bunin, F. Moore, T. Giese, and C. Mutel. 1974. Terrestrial ecology: Yampa River Project, reconnaissance study of ecosystems and environmental impact. Unpubl. report, dept. of EPO Biology, Univ. of Colo., Boulder. 100 pp.
358. Marr, J. W., R. Fritz, J. Meyer, and P. Murphy. 1979. Final report—terrestrial plant ecology—stand ecosystem data tables, Juniper/Cross Mountain Project. Colorado River Water Conservation District, Glenwood Springs, Colo., by the Dept. of EPO Biology, Univ. of Colo., Boulder.

359. Marr, J. W., R. J. Fritz, and P. Murphy. 1979. The vegetation of selected U.S. Forest Service areas in the vicinity of the Climax Mine in Colorado. Unpubl. report prepared for the Climax Molybdenum Co., AMAX, Inc.
360. Marr, J. W., D. L. Johnson, and D. L. Buckner. 1974. Recovery of alpine tundra ecosystems of Fremont Pass, Colorado, following pipeline construction. *J. Colo.-Wyom. Acad. Sci.* 7(5):31 (Abstract).
361. Marr, J. W., and D. G. Steward. 1979. Vegetation in the Colorado Springs-Castle Rock area, Front Range Urban Corridor, Colorado. USGS Misc. Investig. Series, Map I-857-G.
362. Marr, J. W., and B. E. Willard. 1970. Persisting vegetation in an alpine recreation area in the southern Rocky Mountains, Colorado. *Biol. Conserv.* 2:97-104.
363. Mase, J. R. 1982. Vegetation survey: Anvil Points oil shale facility, Garfield County, Colorado. Final report to U.S. Dept. of Energy, Laramie Energy Technology Center, Laramie, Wyoming, by Radian Corporation, 8501 Mo-Pac Blvd., Austin, Texas. 57 pp.
364. Masek, J. 1979. Vegetation community descriptions for the South Platte River in Colorado and Nebraska. Water and Power Resources Service, Denver, Colo. 23 pp.
365. Mason, D. T. 1915. The life history of lodgepole pine in the Rocky Mountains. USDA Bull. No. 154. 35 pp.
366. Maxwell, E. L. 1975. Multispectral analysis of rangeland conditions. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 198 pp.
367. May, D. E. 1973. Models for predicting composition and production of alpine tundra vegetation from Niwot Ridge, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 99 pp.
368. May, D. E. 1974. Phenology and ecotypic variation in alpine tundra vegetation, Niwot Ridge, Colorado. *J. Colo.-Wyom. Acad. Sci.* 7(5):29-30 (Abstract).
369. May, D. E. 1976. The response of alpine tundra vegetation in Colorado to environmental variation. Unpubl. dissertation, Univ. of Colo., Boulder. 164 pp.
370. Mayo, J. E. 1971. A comparative study of the forest floor produced by three age-class stands of *Pinus ponderosa*. Unpubl. thesis, Univ. of Colo., Boulder. 44 pp.
371. Meyer, J. C. 1978. The terrestrial ecology of Skyline Ranch. Unpubl. report on file at The Nature Conservancy, Denver, Colo. 72 pp.
372. Michener, M. J. 1964. The high altitude vegetation of the Needle Mountains of southwestern Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 77 pp.
373. Miller, P. C. 1964a. Factors influencing the vegetation pattern on the White River Plateau in northwestern Colorado. Unpubl. dissertation, Univ. of Colo., Boulder. 208 pp.
374. Miller, P. C. 1964b. Factors influencing the vegetation pattern of the White River Plateau, northwestern Colorado. *Bull. Ecol. Soc. Am.* 45(3):108-109 (Abstract).
375. Miller, P. C. 1970. Age distributions of spruce and fir in beetle-killed forests on the White River Plateau, Colorado. *Am. Midl. Nat.* 83:206-212.
376. Miller, R. L., and G. A. Choate. 1964. The forest resource of Colorado. USDA For. Serv. Resource Bull. INT-3., Intermt. For. & Range Expt. Stn., Ogden, Utah. 55 pp.
377. Mills, R. C. 1962. A study of near climax conditions in a spruce-fir ecosystem. Unpubl. thesis, Univ. of Colo., Boulder. 66 pp.
378. Mitchell, G. C. 1971. Spatial distribution and successional state of grassland vegetation related to grazing intensity treatments. U.S. Int. Biol. Prog., Grassland Biome Tech. Rep. No. 101. 70 pp.
379. Moinat, A. D. 1956. Comparative yields of herbage from oak scrub and interspersed grassland in Colorado. *Ecology* 37:852-854.
380. Moir, W. H. 1969a. The lodgepole pine zone in Colorado. *Am. Midl. Nat.* 81:87-98.
381. Moir, W. H. 1969b. Steppe communities in the foothills of the Colorado Front Range and their relative productivities. *Am. Midl. Nat.* 81:331-340.
382. Moir, W. H. 1972. Tall grass prairie in Colorado and its aesthetic value. Pages 40-46 in J. H. Zimmerman, ed., The Second Midwest Prairie Conference, Univ. of Wisc. Arboretum, Madison.
383. Moir, W. H., and M. J. Trlica. 1976. Plant communities and vegetation pattern as affected by various treatments in shortgrass prairies of northeastern Colorado. *S.W. Nat.* 21:359-371.
384. Moran, P. 1981. Patterns of plant life at Pawnee National Grassland: a manual for the interpreter. Unpubl. report on file at Pawnee National Grasslands, Greeley, Colo. 88 pp.
385. Morgan, M. D. 1969. Ecology of aspen in Gunnison County, Colorado. *Am. Midl. Nat.* 82:204-228.
386. Morris, M. S. 1932. The structure of the chaparral vegetation in northern Colorado. *J. Colo.-Wyom. Acad. Sci.* 1(4):15 (Abstract).
387. Morris, M. S. 1937. Native vegetation of Colorado. *J. Colo.-Wyoming Acad. Sci.* 2(2):37 (Abstract).
388. Morris, M. S., and R. L. Dix. 1971. Natural vegetation of Colorado (Map). Colo. St. Univ., Fort Collins.
389. Moulton, M. P., J. R. Choate, S. J. Bissell, and R. A. Nicholson. 1981. Associations of small mammals on the central high plains of eastern Colorado. *S.W. Natur.* 26:53-57.
390. Moulton, M. P., P. J. Moulton, and J. Sundine. 1980. Site guide to Bonny Reservoir. *Colo. Field Ornithologists Journ.* 14(2):53-55.
391. Mutel, C. F. 1973. An ecological study of the plant communities of certain montane meadows in the Front Range of Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 77 pp.
392. Mutel, C. F. 1976. From grassland to glacier: an ecology of Boulder County, Colorado. Johnson Publ. Co., Boulder. 169 pp.
393. Mutel, C. F. and J. W. Marr. 1973. A vegetative study of three montane herbaceous basins. *J. Colo.-Wyom. Acad. Sci.* 7(4):28 (Abstract).
394. Nelson, J. V. 1973. The environment of the vegetation of the Upper Sonoran and Transition zones in the Uinta Basin. Unpubl. thesis, Univ. of Utah, Salt Lake City.
395. Nelson, R. A. 1934. Further observations of revegetation on the Twinsisters burn in Rocky Mountain National Park. *J. Colo.-Wyom. Acad. Sci.* 1(6):51 (Abstract).
396. Nelson, R. A. 1954. The Twinsisters burn after twenty years. *J. Colo.-Wyom. Acad. Sci.* 4(6):45 (Abstract).

397. Nelson, R. A. 1970. Plants of Rocky Mountain National Park. Rocky Mt. Nature Assoc. and U.S. Natl. Park Service. 3d ed. [Vegetation: p. 17-21].
398. Nelson, R. A., and B. E. Willard. 1962. A survey of the vegetation of Paradise Park. J. Colo.-Wyom. Acad. Sci. 5(3):33-34 (Abstract).
399. Nicholson, R. A., and G. K. Hulett. 1969. Remnant grassland vegetation in the central Great Plains of North America. J. Ecol. 57:599-612.
400. Olgeirson, E. R. 1972. Comparative physiognomic trends in vegetation and soil on a bald near tree-line in Colorado. Unpubl. dissertation, Univ. of Colorado, Boulder. 114 pp.
401. Olgeirson, E. R. 1974a. Parallel conditions and trends in vegetation and soil on a bald near treeline, Boreas Pass, Colorado. Arct. & Alp. Res. 6:185-203.
402. Olgeirson, E. R. 1974b. Vascular plants on a spruce bald in Colorado. Madrono 22:360-363.
403. Olmsted, C. E., III and W. R. Taylor. 1977a. Ecological resource inventory of the Bunker Hill property, Boulder County, Colorado. Unpubl. report on file at The Nature Conservancy, Denver, Colo. 35 pp.
404. Olmsted, C. E., III and W. R. Taylor. 1977b. Ecological resource inventory of the Chambers property, Jefferson County, Colorado. Unpubl. report on file at The Nature Conservancy, Denver, Colo. 41 pp.
405. Osborn, L. W. 1974. Soil-plant relationships in a saltgrass meadow. Unpubl. thesis, Colo. St. Univ., Fort Collins. 77 pp.
406. Osburn, W. S., Jr. 1957. Alpine tundra ecosystems of the Front Range in Colorado. Bull. Ecol. Soc. Am. 38(3):70 (Abstract).
407. Osburn, W. S., Jr. 1958a. Ecology of winter snow-free areas of the alpine tundra of Niwot Ridge, Boulder County, Colorado. Unpubl. dissertation, Univ. of Colo., Boulder. 77 pp.
408. Osburn, W. S., Jr. 1958b. Characteristics of the *Kobresia bellardi* meadow stand ecosystem in the Front Range, Colorado. J. Colo.-Wyom. Acad. Sci. 4(10):38-39 (Abstract).
409. Osburn, W. S., Jr. 1963. The dynamics of fallout distribution in a Colorado alpine tundra snow accumulation ecosystem. Pages 51-71 in V. Schultz and A. W. Klement, Jr., eds., Radioecology. Reinhold Publ. Co., N.Y. and Am. Inst. Biol. Sci., Washington.
410. Pammel, L. H. 1924. Ecological notes in the Arapahoe Mountains near Fraser, Colorado. Proc. Iowa Acad. Sci. 31:133 (Abstract).
411. Pammel, L. H., and R. I. Cratty. 1920. Notes on some plants of the Arapahoe National Forest and Rocky Mountain National Park. Proc. Iowa Acad. Sci. 27:51-73.
412. Paulsen, H. A., Jr. 1960. Plant cover and forage use of alpine sheep ranges in the central Rocky Mountains. Iowa St. J. Sci. 34:731-748.
413. Paulsen, H. A., Jr. 1969. Forage values on a mountain grassland-aspen range in western Colorado. J. Range Mgmt. 22:102-107.
414. Paulsen, H. A., Jr. 1970a. The ecological response of species in a Thurber fescue community to manipulative treatments. Unpubl. dissertation, Colo. St. Univ., Fort Collins.
415. Paulsen, H. A., Jr. 1970b. Competition and successional patterns on Thurber fescue grasslands of western USA. XI Int. Grassl. Congr. [Aug. 1970] Proc. 11:662-665.
416. Paulsen, H. A., Jr. 1975. Range management in the central and southern Rocky Mountains: a summary of the status of our knowledge by range ecosystems. USDA For. Serv. Res. Paper RM-154, Rocky Mt. For. and Range Expt. Stn., Fort Collins, Colo. 34 pp.
417. Peet, R. K. 1975. Forest vegetation of the east slope of the northern Colorado Front Range. Unpubl. dissertation, Cornell Univ., Ithaca, N.Y.
418. Peet, R. K. 1976. Successional patterns and tree population structure in Rocky Mountain forests. Bull. Ecol. Soc. Am. 57(1):60 (Abstract).
419. Peet, R. K. 1977. Latitudinal variation in Rocky Mountain forests. Bull. Ecol. Soc. Am. 58(2):5 (Abstract).
420. Peet, R. K. 1978a. Forest vegetation of the Colorado Front Range: patterns of species diversity. Vegetatio 37:65-78.
421. Peet, R. K. 1978b. Latitudinal variation in southern Rocky Mountain forests. J. Biogeog. 5:275-289.
422. Peet, R. K. 1981. Forest vegetation of the Colorado Front Range: composition and dynamics. Vegetatio 45:3-75.
423. Deleted.
424. Penland, C. W. T. 1941. The alpine vegetation of the southern Rockies and the Ecuadorean Andes. Colo. Coll. Publ., General Series No. 230, Studies Series 32:1-30.
425. Pennak, R. W. 1963. Ecological and radiocarbon correlations in some Colorado mountain lake and bog deposits. Ecology 44:1-15.
426. Petersen, K. L. 1975. Exploratory palynology of a subalpine meadow, La Plata Mountains, southwestern Colorado. Unpubl. thesis, Wash. St. Univ., Pullman. 39 pp.
427. Petersen, K. L. 1981. 10,000 years of climatic change reconstructed from fossil pollen, La Plata Mountains, Southwestern Colorado. Unpubl. dissertation, Wash. St. Univ., Pullman. 211 pp.
428. Petersen, K. L., and P. J. Mehringer, Jr. 1976. Postglacial timberline fluctuations, La Plata Mountains, southwestern Colorado. Arct. and Alp. Res. 8:275-288.
429. Phillips, C. M. 1977. Willow carrs of the upper Laramie River Valley, Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 71 pp.
430. Phillips, V. 1981. Response by alpine plants and soils to microtopography within sorted polygons. J. Colo.-Wyom. Acad. Sci. 13(1):21 (Abstract).
431. Deleted.
432. Potts, M. K. 1935. Special report on range conditions in Rocky Mountain National Park. Unpubl. report on file at Rocky Mountain National Park Headquarters, Estes Park, Colo.
433. Ramaley, F. 1901. Remarks on the distribution of plants in Colorado east of the divide. Postelsia 1:21-53.
434. Ramaley, F. 1902. Mesa vegetation. Science, n.s. 15:455 (Abstract).
435. Ramaley, F. 1906. Plants of the Florissant region in Colorado. Univ. Colo. Studies 3:177-185.
436. Ramaley, F. 1907. Plant zones in the Rocky Mountains of Colorado. Science, n.s. 26:642-643.
437. Ramaley, F. 1908. Botany of northeastern Larimer County, Colorado. Univ. Colo. Studies 5:119-131 + 6 plates.
438. Ramaley, F. 1909a. The silva of Colorado. IV. Forest formations and forest trees. Univ. Colo. Studies 6:249-281.

439. Ramaley, F. 1909b. Wild flowers and trees of Colorado. A. A. Greenman, Univ. Bookstore, Boulder, Colo. 78 pp.
440. Ramaley, F. 1910. Remarks on some northern Colorado plant communities with special reference to Boulder Park (Tolland, Colorado). Univ. Colo. Studies 7:223-236.
441. Ramaley, F. 1914. The amount of bare ground in some mountain grasslands. Bot. Gaz. 57:526-528.
442. Ramaley, F. 1915. The relative importance of different species in a mountain grassland. Bot. Gaz. 60:154-157.
443. Ramaley, F. 1916a. Dry grassland of a high mountain park in northern Colorado. Plant World 19:249-270.
444. Ramaley, F. 1916b. Quadrat studies in a mountain grassland. Bot. Gaz. 62:70-74.
445. Ramaley, F. 1919a. The role of sedges in some Colorado plant communities. Am. J. Bot. 6:120-130.
446. Ramaley, F. 1919b. Some mountain plant communities of sandy soil. Plant World 22:313-328.
447. Ramaley, F. 1919c. Xerophytic grasslands at different altitudes in Colorado. Bull. Torr. Bot. Club 46:37-52.
448. Ramaley, F. 1920. Subalpine lake-shore vegetation in north-central Colorado. Am. J. Bot. 7:57-74.
449. Ramaley, F. 1927. Colorado Plant Life. Univ. of Colo. Semicentennial Series 1877-1927. Vol. II p. viii-299.
450. Ramaley, F. 1929. Botany of the San Luis Valley in Colorado, I. Univ. Colo. Studies 17:27-44.
451. Ramaley, F. 1930. Zonation at the San Luis Lakes, near Alamosa, Colorado. J. Colo.-Wyom. Acad. Sci. 1(2):19-20 (Abstract).
452. Ramaley, F. 1931. Vegetation of chaparral-covered foothills southwest of Denver, Colorado. Univ. Colo. Studies 18(4):231-237.
453. Ramaley, F. 1937. Sand-hill vegetation in north-west-central Colorado. J. Colo.-Wyom. Acad. Sci. 2(2):32-33.
454. Ramaley, F. 1938. Geographic ranges of sand-hills plants of northeastern Colorado. J. Colo.-Wyom. Acad. Sci. 2(4):26 (Abstract).
455. Ramaley, F. 1939a. Sand-hill vegetation of northeastern Colorado. Ecol. Monogr. 9:1-51.
456. Ramaley, F. 1939b. Life forms of plants in Colorado sandhills. J. Colo.-Wyom. Acad. Sci. 2(5):33 (Abstract).
457. Ramaley, F. 1940. Vegetation of the San Luis Valley in Colorado. J. Colo.-Wyom. Acad. Sci. 2(6):35-36 (Abstract).
458. Ramaley, F. 1942. Vegetation of the San Luis Valley in southern Colorado. Univ. Colo. Studies, Series D, 1:231-277.
459. Ramaley, F., and L. Kelso. 1931. Autumn vegetation of the foothills near Boulder, Colorado. Univ. Colo. Studies 18(4):239-255.
460. Ramaley, F., and L. A. Mitchell. 1911. Ecological cross-section of Boulder Park (Tolland, Colorado). Univ. Colo. Studies 8:277-287.
461. Ramaley, F., and W. W. Robbins. 1908a. Ecological notes from north-central Colorado. Univ. Colo. Studies 5:111-117.
462. Ramaley, F., and W. W. Robbins. 1908b. Plant zones of the mountain lakes in northern Colorado. Science n.s. 27:208 (Abstract).
463. Ramaley, F., and W. W. Robbins. 1908c. Rock-ridge vegetation of northern Colorado. Science n.s. 27:208 (Abstract).
464. Ramaley, F., and W. W. Robbins. 1909. Studies in lake and streamside vegetation. I. Redrock Lake near Ward, Colorado. Univ. Colo. Studies 6:133-168 + 4 plates.
465. Ratcliff, H. M. 1941. Winter range conditions in Rocky Mountain National Park. Trans. N. Amer. Wildlife Conf. 6:132-139.
466. Raven, K. A. 1948. Ecology of a timberline area in the Colorado Front Range. Unpubl. thesis, Univ. of Colo., Boulder. 83 pp.
467. Rector, C. D. 1979. Lower Gunnison River Basin wetland inventory and evaluation. Unpubl. thesis, Univ. of Colo., Boulder. 71 pp.
468. Rector, C. D., E. W. Mustard, and J. T. Windell. 1978. Preliminary report, Lower Gunnison River Basin wetland inventory and evaluation. USDA Soil Conserv. Serv., Denver, Colo. 65 pp.
469. Reed, E. L. 1917. Meadow vegetation in the montane region of northern Colorado. Bull. Torr. Bot. Club. 44:97-109.
470. Regelin, W. L., J. G. Nagy, and O. C. Wallmo. 1978. Effects of snowdrifts on mountain shrub communities. Pages 414-419 in XIIIth Int. Congr. of Game Biol. [Mar. 11-15, 1977-Atlanta, Ga.]. Wildl. Soc., Wildl. Manage. Inst., Washington, D.C.
471. Reichhardt, K. L. 1976. An ecological assessment of the Pawnee Buttes area. Unpubl. report, Dept. of Biol. Sci., Univ. of N. Colo., Greeley. 58 pp.
472. Reichhardt, K. L. 1978. Succession of old fields on the Pawnee National Grasslands. Unpubl. thesis, Univ. of N. Colo., Greeley. 89 pp.
473. Reid, E. H., and L. D. Love. 1951. Range-water-shed conditions and recommendations for management, Elk Ridge and Lower Elk Ridge cattle allotments, Roosevelt National Forest, Colorado. Unpubl. report, USDA For. Serv. 123 pp. On file at Colo. St. Univ. Library, A13.2/W31r.
474. Reid, W. H. 1974. Analysis of plant ecological systems through simulation of individual organisms. Unpubl. dissertation, Univ. of Colo., Boulder. 265 pp.
475. Rice, R. R. 1974. Productivity of *Festuca thurberi* Missionary Ridge, Colorado, 1972. J. Colo.-Wyom. Acad. Sci. 7(5):41 (Abstract).
476. Richards, J. D., and R. L. Dix. 1979. An environmental model of the subalpine forest of the San Juan Mountains, Colorado. Bull. Ecol. Soc. Am. 60(2):103 (Abstract).
477. Risser, P. G. 1971. Plant community structure. Pages 41-57 in N. R. French, ed., Preliminary analysis of structure and function in grasslands. Range Sci. Dept., Sci. Series No. 10, Colo. St. Univ., Fort Collins.
478. Roach, A. W. 1948. The ecology of vegetational change in the foothills ecotone near Boulder, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 81 pp.
479. Robbins, W. W. 1908. Studies of mesa and foothill vegetation. 4. Distribution of the deciduous trees and shrubs on the mesas. Univ. Colo. Studies 6:36-49.
480. Robbins, W. W. 1910a. A botanical trip in north-western Colorado. Univ. Colo. Studies 7:115-125.
481. Robbins, W. W. 1910b. Climatology and vegetation in Colorado. Bot. Gaz. 49:256-280.

482. Robbins, W. W. 1917. Native vegetation and climate of Colorado in their relation to agriculture. *Colo. Agr. Exp. Sta. Bull.* 224. 56 pp.
483. Robbins, W. W. 1918. Successions of vegetation in Boulder Park, Colorado. *Bot. Gaz.* 65:493-525.
484. Robbins, W. W., and G. S. Dodds. 1908. Studies of mesa and foothill vegetation. 3. Distribution of conifers on the mesa. *Univ. Colo. Studies* 6:31-36.
485. Robertson, D. R., J. L. Nielsen, and N. H. Bare. 1966. Vegetation and soils of alkali sagebrush and adjacent big sagebrush ranges in North Park, Colorado. *J. Range Mgmt.* 19:17-20.
486. Rogers, C. M. 1950. The vegetation of the Mesa de Maya region of Colorado, New Mexico, and Oklahoma. Unpubl. dissertation, Univ. of Michigan, Ann Arbor. 125 pp.
487. Roughton, C. M. 1953. The vegetation of the Mesa de Maya region of Colorado, New Mexico, and Oklahoma. *Lloydia* 16:257-291.
488. Roughton, R. D. 1966. Age structure of browse populations. Unpubl. thesis, Colo. St. Univ., Fort Collins. 154 pp.
489. Roughton, R. D. 1972. Shrub age structures on a mule deer winter range in Colorado. *Ecology* 53:615-625.
490. Rowdabaugh, K. M. 1978. The role of fire in the ponderosa pine-mixed conifer ecosystems. Unpubl. thesis, Colo. St. Univ., Fort Collins. 121 pp.
491. Ruangpanit, N. 1977. Primary productivity of sandhills grassland. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 165 pp.
492. Rydberg, P. A. 1913. Phytogeographical notes on the Rocky Mountain region. I. Alpine region. *Bull. Torr. Bot. Club* 40:677-686.
493. Rydberg, P. A. 1914a. Phytogeographical notes on the Rocky Mountain region. II. Origin of the alpine flora. *Bull. Torr. Bot. Club* 41:89-103.
494. Rydberg, P. A. 1914b. Phytogeographical notes on the Rocky Mountain region. III. Formations in the alpine zone. *Bull. Torr. Bot. Club* 41:459-474.
495. Rydberg, P. A. 1915a. Phytogeographical notes on the Rocky Mountain region. IV. Forests of the subalpine and montane zones. *Bull. Torr. Bot. Club* 42:11-25.
496. Rydberg, P. A. 1915b. Phytogeographical notes on the Rocky Mountain region. V. Grasslands of the subalpine and montane zones. *Bull. Torr. Bot. Club* 42:629-642.
497. Rydberg, P. A. 1916a. Phytogeographical notes on the Rocky Mountain region. VI. Distribution of the subalpine plants. *Bull. Torr. Bot. Club* 43:343-364.
498. Rydberg, P. A. 1916b. Vegetative life zones of the Rocky Mountain region. *Mem. N.Y. Bot. Garden* 6:477-499.
499. Rydberg, P. A. 1917. Phytogeographical notes on the Rocky Mountain region. VII. Formations in the subalpine zone. *Bull. Torr. Bot. Club* 44:431-454.
500. Rydberg, P. A. 1919. Phytogeographical notes on the Rocky Mountain region. VIII. Distribution of the montane plants. *Bull. Torr. Bot. Club* 46:295-327.
501. Rydberg, P. A. 1920. Phytogeographical notes on the Rocky Mountain region. IX. Wooded formations of the montane zone of the southern Rockies. *Bull. Torr. Bot. Club* 47:441-454.
502. Rydberg, P. A. 1921. Phytogeographical notes on the Rocky Mountain region. X. Grasslands and other open formations of the montane zone of the southern Rockies. *Bull. Torr. Bot. Club* 48:315-326.
503. Savage, D. A. 1937. Drought survival of native grass species in the central and southern Great Plains, 1935. *USDA Tech. Bull.* No. 549.
504. Savage, D. A., and H. E. Runyon. 1937. Natural revegetation of abandoned farm land in the central and southern Great Plains. Pages 178-182 in *Rep. 4th Int. Grassland Congress, Aberystwyth, Gt. Brit., Sec. 1. Grassland Ecology.*
505. Schaum, J. L. 1979. An assessment of the South Platte lowland riparian habitat for natural area designation. Unpubl. thesis, Univ. of N. Colo., Greeley. 129 pp.
506. Scheideman, L. L. 1971. The effects of 2,4-D on submontane vegetation, southcentral Colorado. Unpubl. thesis, Western State College, Gunnison, Colo. 77 pp.
507. Schmid, J. M., and T. E. Hinds. 1974. Development of spruce-fir stands following spruce beetle outbreaks. *USDA For. Serv. Res. Paper RM-131, Rocky Mt. For. and Range Expt. Sta., Fort Collins, Colo.* 16 pp.
508. Schmall, H. M. 1935. Vegetation of the Chimney Rock area, Pagosa-Piedra region, Colorado. Priv. Edition, Distr. by Univ. of Chicago Libraries, Chicago, Ill. 58 pp.
509. Schneider, E. C. 1909. The distribution of woody plants in the Pike's Peak Region. *Colo. Coll. Publ. Sci. Series* 12:136-169.
510. Schneider, E. C. 1911. The succession of plant life on the gravel slides in the vicinity of Pike's Peak. *Colo. Coll. Publ. Sci. Series* 12(8):289-301.
511. Schroeder, R. E. 1977. Species composition changes on three range types under two grazing systems. Unpubl. thesis, Colo. St. Univ., Fort Collins. 65 pp.
512. Schwan, H. E., and D. F. Costello. 1951. The Rocky Mountain alpine type-range conditions, trends and land use (a preliminary report). Unpubl. report, *USDA For. Serv. Rocky Mtn. Region (R2), Denver, Colo.* 18 pp.
513. Scott-Williams, B. W. 1965. The ecology of the alpine tundra on Trail Ridge. Pages 13-16 in C. B. Schulz and H. T. Smith, eds., *Guidebook for one-day field conferences-Boulder area, Colorado.* VIIIth Int. Assoc. for Quat. Res. Congress, Nebraska Acad. Sci., Lincoln.
514. Shaddle, P. H. 1939. An ecological study of the vegetation of the Black Forest of Colorado. Unpubl. thesis, Univ. of Colo., Boulder.
515. Shanks, D. L. 1977. Aerial photo densitometry for rangeland planning and evaluation. Unpubl. thesis, Colo. St. Univ., Fort Collins. 66 pp.
516. Shantz, H. L. 1906a. A study of the vegetation of the Mesa region east of Pike's Peak: the *Bouteloua* formation: I. Structure of the formation. *Bot. Gaz.* 42:16-47.
517. Shantz, H. L. 1906b. A study of the vegetation of the mesa region east of Pike's Peak: the *Bouteloua* formation: II. Development of the formation. *Bot. Gaz.* 42:179-207.
518. Shantz, H. L. 1911. Natural vegetation as an indicator of the capabilities of land for crop production in the Great Plains area. *USDA Bur. Plant Ind. Bull.* No. 201. 100 pp.
519. Shantz, H. L. 1917. Plant succession on abandoned roads in eastern Colorado. *J. Ecol.* 5:19-42.

520. Shantz, H. L. 1923. The natural vegetation of the Great Plains region. *Ann. Assoc. Am. Geog.* 13:81-107.
521. Shaver, J. C., and H. G. Fisser. 1972. Detailed vegetation mapping of the IBP Pawnee site. *U.S. Int. Biol. Prog., Grassland Biome Tech. Rept. No. 150.* 44 pp.
522. Shepherd, H. R. 1975. Vegetation of two dissimilar bighorn sheep ranges in Colorado. *Colo. Div. Wildlife Div. Rept. No. 4.* 223 pp.
523. Shubert, M. L. 1950. Some problems of aspen distribution in South Park. *J. Colo.-Wyom. Acad. Sci.* 4(2):53 (Abstract).
524. Shubert, M. L., W. Binder, and E. L. Todut. 1962a. Ecology of the Black Forest of Colorado re-examined. *J. Colo.-Wyom. Acad. Sci.* 5(3):35-36 (Abstract).
525. Shubert, M. L., W. Binder, and E. L. Todut. 1962b. Historical events in an ecological enigma. *Bull. Ecol. Soc. Am.* 43(2):52 (Abstract).
526. Simkins, E. C. 1931. The alpine flora of Mt. Niwot, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 68 pp.
527. Sims, P. L., B. E. Dahl, and A. H. Denham. 1976. Vegetation and livestock response at three grazing intensities on sandhill rangeland in eastern Colorado. *Colo. Agric. Expt. Stn. Tech. Bull. No. 130.* 48 pp.
528. Sims, P. L., J. S. Singh, and W. K. Lauenroth. 1978. The structure and function of ten western North American grasslands. I. Abiotic and vegetational characteristics. *J. Ecol.* 66:251-285.
529. Slauson, W. L. and R. T. Ward. 1979. How species form communities in alpine tundra. *Bull. Ecol. Soc. Am.* 60(2):93 (Abstract).
530. Smith, D. R. 1967. Effects of cattle grazing on a ponderosa pine-bunchgrass range in Colorado. *USDA For. Serv. Tech. Bull. No. 1371.* 60 pp.
531. Smith, E. C. 1942. The willows of Colorado. *Am. Midl. Nat.* 27:217-252.
532. Smith, E. L., Jr. 1966. Soil-vegetation relationships of some *Artemisia* types in North Park, Colorado. Unpubl. dissertation, Colo. St. Univ., Fort Collins.
533. Somers, P., G. E. Nichols, and R. W. Stransky. 1980. Final report: baseline ecological study of Narraquinnep Research Natural Area, San Juan Nat. For., Unpubl. report, Fort Lewis College, Durango, Colo. 23 pp.
534. Spencer, J. P. 1975. The effects of winter weather modification on alpine plant communities in the San Juan Mountains, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 122 pp.
535. Sperry, O. E. 1936. A study of the growth, transpiration, and distribution of the conifers of the Rocky Mountain National Park. *Bull. Torr. Bot. Club* 63:75-103.
536. Springfield, H. W. 1976. Characteristics and management of southwestern pinyon-juniper ranges: the status of our knowledge. *USDA For. Serv. Res. Paper RM-160*, Rocky Mt. Forest and Range Expt. Sta., Fort Collins, Colo. 32 pp.
537. Stahelin, R. 1943. Factors influencing the natural restocking of high altitude burns by coniferous trees in the central Rocky Mountains. *Ecology* 24:19-30.
538. Stearns-Roger, Inc. 1978a. Rawhide Energy Project. Plant site and railroad spur, ecological studies. Vol. I. Baseline summary, impact assessment and recommendations. Report to Platte River Power Authority. 102 pp.
539. Stearns-Roger, Inc. 1978b. Rawhide Energy Project. Transmission system, ecological investigations. Vol. II. Technical Baseline Report. Report to Platte River Power Authority. 51 pp.
540. Steen, O. A. and R. L. Dix. 1974. A preliminary classification of Colorado subalpine forests: a working guide. Unpubl. report on file at Rocky Mt. For. and Range Expt. Stn., Fort Collins, Colo. 9 pp.
541. Steinhoff, H. W. 1962. Certain aspects of the ecology of the ponderosa pine community as revealed by a study of twelve small enclosures in Rocky Mountain National Park. Unpubl. report on file at Rocky Mountain National Park Hqtrs., Estes Park, Colo.
542. Steinhoff, H. W. 1978. Management of Gambel oak associations for wildlife and livestock. Unpubl. report on file at Rocky Mountain Regional Office, USDA Forest Service, Denver, Colo. 119 pp.
543. Stevens, D. R. 1970. Ungulate ecology studies in Rocky Mountain National Park. U.S. Dept. Int., Nat. Park Serv. Progress Rep., Unpubl. report on file at the office of Park Service Biologist, Rocky Mt. Nat. Park Hqtrs., Estes Park, Colo. 74 pp.
544. Stevens, D. R. 1972. Vegetation map of the eastern winter range. Unpubl. report on file at Rocky Mountain National Park Hqtrs., Estes Park, Colo.
545. Stevens, D. R. 1976a. Problems of revegetation of alpine tundra. *Proc. 1st Conf. on Sci. Res. in Nat. Parks* 1:241-245. U.S. Dept. Int., Nat. Park Serv., Trans. and Proc. Series No. 5.
546. Stevens, D. R. 1976b. Ecology of elk on alpine tundra in Rocky Mountain National Park. *Proc. 1st Conf. on Sci. Res. in Nat. Parks* 1:421-426. U.S. Dept. Int., Nat. Park Serv., Trans. and Proc. Series No. 5.
547. Steward, D. G. 1977. Tree-island communities of Rocky Mountain National Park. Unpubl. thesis, Univ. of Colo., Boulder. 140 pp.
548. Stewart, B. K. 1940. Plant ecology and paleoecology of the Creede Valley, Colorado. Unpubl. dissertation, Univ. of Colo., Boulder. 154 pp.
549. Stewart, O. C. 1953. Why the Great Plains are treeless. *Colo. Quart.* 2:40-50.
550. Stigall, B. M. 1934. The vegetation of Cuchara Valley, Colorado. Unpubl. report on file in Univ. of Colo. Library, 581.9788/St52. 56 pp.
551. Deleted.
552. Strong, L. L. 1980. Estimating phytomass production of habitat types on sagebrush steppe. Unpubl. thesis, Colo. St. Univ., Fort Collins. 133 pp.
553. Strong, N. M. 1978. An ecological study of the Pierce Preserve, Routt County, Colorado. Unpubl. report on file at The Nature Conservancy, Denver, Colo. 88 pp.
554. Strong, N. M., R. D. Comer, and D. G. Steward. 1978. An ordination and classification of the woody vegetation in Boulder County, Colorado. *J. Colo.-Wyom. Acad. Sci.* 10(1):35-36 (Abstract).
555. Stroud, D. W., and H. G. Fisser. 1972. Plant pattern, microrelief and *Bouteloua gracilis* culm density, studies on the Pawnee site: 1970-71. *U.S. Int. Biol. Prog., Grassland Biome Tech. Rep. No. 186.*
556. Sudworth, G. B. 1900a. White River Plateau Timber Land Reserve. *U.S. Geol. Survey 20th Ann. Rept., Part V:117-179.*
557. Sudworth, G. B. 1900b. Battlement Mesa Forest Reserve. *U.S. Geol. Survey 20th Ann. Rept., Part V:181-243.*

558. Sweeny, J. R. 1975. Effects of snow on oak brush. Unpubl. dissertation, Colo. St. Univ., Fort Collins, Colo. 101 pp.
559. Sweeny, J. R., and H. W. Steinhoff. 1976. Effects of snow on oak brush. Pages 343-366 in H. W. Steinhoff and J. D. Ives, eds., *Ecological impacts of snowpack augmentation in the San Juan Mountains, Colorado*. Final report of the San Juan Ecol. Proj., Colo. St. Univ., Fort Collins, to the USDI Bur. Recl., Div. of Atmos. Wat. Res. Mgmt., Denver, Colo.
560. Swift, R. L. 1974. Vegetation-site relations of ponderosa pine forest in the Front Range of central Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 121 pp.
561. Tassel, S., and J. L. Carter. 1980. The vascular flora of El Paso County. *J. Colo.-Wyom. Acad. Sci.* 12(1):29 (Abstract).
562. Terwilliger, C., Jr., and E. L. Smith. 1978. Range resource types in North Park, Colorado. *Colo. St. Univ., Range Sci. Dept. Sci. Series No. 32*. 48 pp.
563. Terwilliger, C., Jr., and P. G. Threlkeld. 1974. Vegetation map, Piceance Basin and Roan Plateau, Colorado. In C. W. Cook, ed., *Surface rehabilitation of land disturbances resulting from oil shale development*. Env. Resources Center, Colo. St. Univ., Fort Collins, Tech. Rept. Series No. 1.
564. Terwilliger, C., Jr., and J. A. Tiedeman. 1978. Habitat types of the mule deer critical winter range and adjacent steppe region of Middle Park, Colorado. Unpubl. report on file at Rocky Mt. For. & Range Expt. Stn., Fort Collins, Colo. 108 pp.
565. Terwilliger, C., Jr., K. Hess, and C. H. Wasser. 1979. The habitat types of Region II, U.S. Forest Service, a preliminary list and description. An initial progress report for "Habitat Type Classification, Region Two, United States Forest Service" Cooperative Agreement No. 16-845-CA.
566. Thilenius, J. F. 1975. Alpine range management in the northern United States—principles, practices, and problems: the status of our knowledge. USDA For. Serv. Res. Paper RM-157, Rocky Mt. For. & Range Exp. Stn., Fort Collins, Colo. 32 pp.
567. Deleted.
568. Thorne Ecological Institute. 1973a. Environmental setting of the Parachute Creek Valley: an ecological inventory. Unpubl. report prepared for Colony Develop. Operation, Atlantic Richfield Co., Operator, Denver, Colo., by Thorne Ecol. Inst., Boulder, Colo. [Vegetation: p. 36-40, map].
569. Thorne Ecological Institute. 1973b. Part 1, The Colony Environmental Study—Parachute Creek, Garfield County, Colorado. Unpubl. report prepared for Colony Development Operation, by Thorne Ecol. Inst., Boulder, Colo. [Vegetation: p. 26-30].
570. Tiedeman, J. A. 1978. Phyto-edaphic classification of the Piceance Basin. Unpubl. dissertation, Colo. St. Univ., Fort Collins. 281 pp.
571. Tiedeman, J. A., and C. Terwilliger, Jr. 1978. Phyto-edaphic classification of the Piceance Basin. *Colo. St. Univ., Range Sci. Dept. Sci. Series No. 31*. 265 pp.
572. Tietjen, H. P., C. H. Halvorson, P. L. Hegdal, and A. M. Johnson. 1967. 2,4-D herbicide, vegetation, and pocket gopher relationships, Black Mesa, Colorado. *Ecology* 48:634-643.
573. Tomanek, G. W., and G. K. Hulett. 1972. A survey of some remnant prairies of the central Great Plains. Pages 34-39 in J. H. Zimmerman, ed., *The Second Midwest Prairie Conference*, Univ. of Wisc. Arboretum, Madison.
574. Trammell, J. R., Jr., and J. W. Marr. 1974. Phytosociology of aspen stand-types on the east slope of the Front Range, Boulder County, Colorado. *J. Colo.-Wyom. Acad. Sci.* 7(5):41 (Abstract).
575. Trammell, V. M., and J. R. Trammell, Jr. 1977. Plant communities of Roxborough Park, Douglas County, Colorado. Unpubl. report, Arapahoe Community College, Littleton, Colo. 14 pp.
576. Trlica, M. J., and P. Hackney. 1977. Vegetative and wildlife inventory of Sommerville Table. Unpubl. report on file at the Bureau of Land Mgmt., Royal Gorge Resource Area, Canon City, Colo. 20 pp.
577. Turner, G. T. 1964. Vegetation changes on a mountain grassland in west central Colorado during 19 years. *Bull. Ecol. Soc. Am.* 45(3):108 (Abstract).
578. Turner, G. T. 1969. Responses of mountain grassland vegetation to gopher control, reduced grazing, and herbicide. *J. Range Mgmt.* 22:377-383.
579. Turner, G. T., and E. J. Dortignac. 1954. Infiltration, erosion, and herbage production of some mountain grasslands in western Colorado. *J. For.* 52:858-860.
580. Turner, G. T. and H. A. Paulsen, Jr. 1976. Management of mountain grasslands in the central Rockies: the status of our knowledge. USDA For. Serv. Res. Paper RM-161, Rocky Mt. For. and Range Expt. Stn., Fort Collins, Colo. 24 pp.
581. Ueckert, D. N. 1968. Diets of some grasshoppers common on mountain hermland in northern Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins.
582. Ulman, W. J., and H. L. Young, eds., 1970. The Dodd property natural area study. Unpubl. report, Dept. of Geogr., Univ. of Colo., Boulder. 68 pp.
583. Ungar, I. A. 1974a. Halophyte communities of Park County, Colorado. *Bull. Torr. Bot. Club* 101:145-152.
584. Ungar, I. A. 1974b. The effect of soil factors on the distribution of halophytic species at South Park, Colorado. *Bull. Ecol. Soc. Am.* 55(2):31-32 (Abstract).
585. Ungar, I. A. 1974c. Inland halophytes of the United States. Pages 235-305 in R. J. Reimold and W. H. Queen, eds., *Ecology of halophytes*. Acad. Press, Inc., New York.
586. USDA Soil Conservation Service. 1969. Major land resource area and generalized land use map—Colorado. SCS, Portland, Oregon.
587. USDA Soil Conservation Service. 1978. Range site descriptions for Colorado. Tech. Guide, Section II-E. Colo. St. Office, Denver, Colo.
588. USDI Bureau of Land Management. 1979. Pages 2-6 to 2-15 in Grand Junction Resource Area grazing management—draft environmental statement.
589. USDI Bureau of Reclamation. 1976. Flora and terrestrial vertebrate studies of the Grand Valley, Colorado. Final Report to U.S. Bur. Recl. from Ecology Consultants, Inc., Fort Collins, Colo. [Vegetation: p. 56-85, 283-354].
590. USDI National Park Service. 1932. Report on condition of portions of elk and deer winter range in Rocky Mountain National Park. Unpubl. report on file at Rocky Mountain National Park Hqtrs., Estes Park, Colo.

591. Utah Environmental and Agricultural Consultants. 1973. Environmental setting, impact, mitigation, and recommendations for a proposed oil products pipeline between Lisbon Valley, Utah, and Parachute Creek, Colorado. Colony Development Operation, Atlantic Richfield Co., Denver, Colo. [Vegetation: p. 3-38].
592. Vestal, A. G. 1913. Plains vegetation adjoining the mountains: the region about Boulder in Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 40 pp.
593. Vestal, A. G. 1914. Prairie vegetation of a mountain-front area in Colorado. Bot. Gaz. 58:377-400.
594. Vestal, A. G. 1915. Phytogeography of the eastern mountain front in Colorado. Unpubl. dissertation, Univ. of Chicago, Chicago, Ill. 41 pp.
595. Vestal, A. G. 1917. Foothills vegetation in the Colorado Front Range. Bot. Gaz. 64:353-385.
596. Vestal, A. G. 1919. Phytogeography of the eastern mountain front in Colorado. I. Physical geography and distribution of vegetation. Bot. Gaz. 68:153-193.
597. Vories, K. C. 1974. A vegetation inventory and analysis of the Piceance Basin and adjacent drainages. Unpubl. thesis, Western State College, Gunnison, Colo. 243 pp.
598. Walker, R. B. 1962. Comparison of a wide south-facing and a narrow north-facing canyon. Pages 103-119 in A. M. Woodbury, ed., Ecological studies of the flora and fauna of the Curecanti Reservoir basins, western Colorado. Univ. of Utah, Dept. of Anthropol., Anthropol. Papers No. 59 (Upper Colo. Ser. No. 8).
599. Walter, R. G. 1963. The vascular flora of the north end of South Park. Unpubl. thesis, Univ. of Colo., Boulder. 61 pp.
600. Ward, A. L. and J. O. Keith. 1962. Feeding habits of pocket gophers on mountain grasslands, Black Mesa, Colorado. Ecology 43:744-749.
601. Ward, R. T. 1961a. An ordination of alpine vegetation. Bull. Ecol. Soc. Am. 42:147-148 (Abstract).
602. Ward, R. T. 1961b. Species association in the alpine. J. Colo.-Wyom. Acad. Sci. 5(2):38 (Abstract).
603. Ward, R. T. 1966. Ecological studies of alpine tundra in Rocky Mountain National Park. Bull. Ecol. Soc. Am. 47(3):140 (Abstract).
604. Ward, R. T., W. Slauson, and R. L. Dix. 1974a. The natural vegetation in the landscape of the Colorado oil shale region. Pages 9-17 in C. W. Cook, ed., Surface rehabilitation of land disturbances resulting from oil shale development. Environ. Resources Center, Colo. St. Univ., Information Series No. 11, Fort Collins. [Executive summary of Tech. Rep. Series No. 1:30-66].
605. Ward, R. T., W. Slauson, and R. L. Dix. 1974b. The natural vegetation in the landscape of the Colorado oil shale region. Pages 30-66 in C. W. Cook, ed., Surface rehabilitation of land disturbances resulting from oil shale development. Final Rept., Phase I, to the Colo. Dept. of Nat. Resources. Environ. Resources Center, Colo. State Univ., Fort Collins, Tech. Rep. Series No. 1.
606. Wardle, P. 1968. Engelmann spruce (*Picea engelmannii* Engel.) at its upper limits on the Front Range, Colorado. Ecology 49:483-495.
607. Wasser, C. H., and J. L. Retzer. 1965. Ecology and utility of the central Rocky Mountain alpine zone. 9th Internat. Grassland Congr. Proc. 9:357-361.
608. Weaver, J. E., and F. W. Albertson. 1944. Nature and degree of recovery of grassland from the great drought of 1933 to 1940. Ecol. Monogr. 14:393-479.
609. Weaver, J. E., and F. W. Albertson. 1956. Grasslands of the Great Plains: their nature and use. Johnsen Publ. Co., Lincoln, Nebr. 395 pp.
610. Webber, P. J., S. V. Clark, and V. Komárková. 1977. Botanical survey of the environs of the Rocky Flats (ERDA) Plant: mapping and ordination analyses. Pages 29-34 in D. C. Hunt, ed., Transactions of meeting on Rocky Flats buffer zone ecological and environmental research meeting, 4 March 1977, Rockwell International, Rocky Flats Plant, Golden, Colo.
611. Webber, P. J., J. C. Emerick, D. C. E. May, and V. Komárková. 1976. The impact of increased snowfall on alpine vegetation. Pages 201-264 in H. W. Steinhoff and J. D. Ives, eds., Ecological impacts of snowpack augmentation in the San Juan Mountains, Colorado. Final Report of the San Juan Ecology Project, Colo. St. Univ., Fort Collins, to the USDI Bur. Recl., Div. of Atmos. Wat. Res. Mgmt., Denver, Colo.
612. Webber, P. J. and D. E. May. 1977. The magnitude and distribution of belowground plant structures in the alpine tundra of Niwot Ridge, Colorado. Arct. and Alp. Res. 9:157-174.
613. Weber, W. A. 1949. Preliminary observations on plant distribution patterns in Colorado. I. The relict flora. J. Colo.-Wyom. Acad. Sci. 4(1):45-46 (Abstract).
614. Weber, W. A. 1961. Alpine floristic components of the southern Rocky Mountains. Bull. Ecol. Soc. Am. 42(4):164 (Abstract).
615. Weber, W. A. 1965. Plant geography in the southern Rocky Mountains. Pages 453-468 in H. E. Wright, Jr. and D. G. Frey, eds., The Quaternary of the United States. Princeton Univ. Press, Princeton, N.J.
616. Weber, W. A. 1972. Pages 2, 4-5 in Rocky Mountain Flora. Colo. Assoc. Univ. Press, Boulder. 4th ed.
617. Weir, G. H. 1976. Palynology, flora, and vegetation of Hovenweep National Monument: implications for aboriginal plant use on Cajon Mesa, Colorado and Utah. Unpubl. dissertation, Texas A & M Univ., College Station, Texas. 217 pp.
618. Welden, C. W. 1981. Pattern in alpine tundra. Unpubl. thesis, Colo. St. Univ., Fort Collins. 144 pp.
619. Wells, P. V. 1965. Scarp woodlands, transported grassland soils, and concept of grassland climate in the Great Plains region. Science 148:246-249.
620. Wells, P. V. 1970a. Postglacial vegetational history of the Great Plains. Science 167:1574-1582.
621. Wells, P. V. 1970b. Historical factors controlling vegetation patterns and floristic distributions in the central plains region of North America. Pages 211-221 in W. Dort and J. D. Jones, eds., Pleistocene and recent environments of the central Great Plains. Univ. of Kansas Press, Lawrence.
622. Welsh, S. L., J. K. Rigby, and W. K. Hamblin. 1980. A survey of Natural Landmark areas of the north portion of the Colorado Plateau. Report prepared for the Heritage Conservation and Recreation Service, U.S. Dept. Interior. 270 pp.
623. Western Engineers, Inc. 1981. Reconnaissance of terrestrial vegetation at the Taylor Draw Reservoir site. Unpubl. report on file at Western Engineers, Inc., Grand Junction, Colo. 17 pp.
624. Whipple, S. A. 1973. The species composition and age-structure of subalpine forests of the Front Range. Unpubl. thesis, Colo. St. Univ., Fort Collins.

625. Whipple, S. A. 1975. The influence of environmental gradients on vegetational structure in the subalpine forest of the southern Rocky Mountains. Unpubl. dissertation, Colo. St. Univ., Fort Collins.
626. Whipple, S. A. 1976. Successional and population dynamics of the major tree species in the Colorado Rocky Mountain subalpine forest. *Bull. Ecol. Soc. Am.* 57(1):59 (Abstract).
627. Whipple, S. A. 1977. The importance of buried seeds to vegetational composition in old-growth Colorado subalpine forest. *Bull. Ecol. Soc. Am.* 58(2):15 (Abstract).
628. Whipple, S. A. 1978a. Structural variation in a Colorado subalpine forest. *Bull. Ecol. Soc. Am.* 59(2):79 (Abstract).
629. Whipple, S. A. 1978b. The relationship of buried, germinating seeds to vegetation in an old-growth Colorado subalpine forest. *Can. J. Bot.* 56:1505-1509.
630. Whipple, S. A. and R. L. Dix. 1979. Age structure and successional dynamics of a Colorado subalpine forest. *Am. Midl. Nat.* 101:142-158.
631. Whitfield, C. J. 1933. The vegetation of the Pike's Peak region. *Ecol. Monogr.* 3:75-105.
632. Wilford, B. H. 1967. Conditions and trends of forest stands within the Park Range weather modification study area, Routt National Forest. Unpubl. report on file at Hahns Peak Dist. Headquarters, Routt N.F., Steamboat Springs, Colo. 23 pp.
633. Willard, B. E. 1960a. The ecology and phytosociology of the Tundra Curves, Trail Ridge, Colorado. Unpubl. thesis, Univ. of Colo., Boulder. 144 pp.
634. Willard, B. E. 1960b. Application of the methods of Zurich-Montpellier phytosociology to some alpine vegetation on Trail Ridge, Rocky Mountain National Park, Colorado. *J. Colo.-Wyom. Acad. Sci.* 5(1):36-37 (Abstract).
635. Willard, B. E. 1961. The effects of visitor impact on Rocky Mountain alpine tundra. *Bull. Ecol. Soc. Am.* 42:141-142 (Abstract).
636. Willard, B. E. 1963. Phytosociology of the alpine tundra of Trail Ridge, Rocky Mountain National Park, Colorado. Unpubl. dissertation, Univ. of Colo., Boulder.
637. Willard, B. E. 1964. Phytosociology of alpine tundra ecosystems of Trail Ridge, Colorado. *Bull. Ecol. Soc. Am.* 45(3):111-112 (Abstract).
638. Willard, B. E. 1967. Effects of visitors on the ecosystems of Rocky Mountain National Park. *Bull. Ecol. Soc. Am.* 48(2):86 (Abstract).
639. Willard, B. E. 1979. Plant sociology of alpine tundra, Trail Ridge, Rocky Mountain National Park, Colorado. *Colo. Sch. Mines Quart.* 74(4):1-119.
640. Willard, B. E., and J. W. Marr. 1970. Effects of human activities on alpine tundra ecosystems in Rocky Mountain National Park, Colorado. *Biol. Conserv.* 2:257-265.
641. Willard, B. E., and J. W. Marr. 1971. Recovery of alpine tundra under protection after damage by human activities in the Rocky Mountains of Colorado. *Biol. Conserv.* 3:181-190.
642. Willard, B. E., J. W. Marr, and D. Buckner. 1973. Ecological analyses of potential shale oil products pipeline corridors in Colorado and Utah. Report to the Colony Development Operation by Thorne Ecological Institute and University of Colo., Lab. of Mt. Ecol. for Man, Boulder, Colo.
643. Williams, T. E. 1938. Ecology of the Black Forest. *J. Colo.-Wyom. Acad. Sci.* 2(4):24 (Abstract).
644. Williams, T. E. 1940. Ecology of the Black Forest of Colorado. *J. Colo.-Wyom. Acad. Sci.* 2(6):37 (Abstract).
645. Williams, T. E., and A. E. Holch. 1946. Ecology of the Black Forest of Colorado. *Ecology* 27:139-149.
646. Wilson, H. C. 1969. Ecology and successional patterns of wet meadows, Rocky Mountain National Park, Colorado. Unpubl. dissertation, Univ. of Utah, Salt Lake City. 99 pp.
647. Winternitz, B. L. 1973. Ecological patterns in a montane breeding bird community. Unpubl. dissertation, Univ. of Colo., Boulder. 109 pp.
648. Woodbury, A. M., S. D. Durrant, and S. Flowers. 1961. A survey of vegetation in the Navajo Reservoir basin. Univ. of Utah, Dept. of Anthropol., *Anthropol. Papers No. 51*, 99 pp.
649. Woodbury, A. M., S. D. Durrant, and S. Flowers. 1962. A survey of vegetation in the Curecanti Reservoir basins. Univ. of Utah, Dept. of Anthropol., *Anthropol. Papers No. 56*, 98 pp.
650. Woodin, H. E. 1953. The pinyon-juniper association in the eastern foothills of the Rockies. Unpubl. dissertation, Purdue Univ., Lafayette, Ind.
651. Woodin, H. E., and A. A. Lindsey. 1953. Pinyon-juniper east of the continental divide, as analyzed by the line-strip method. *Bull. Ecol. Soc. Am.* 34(3):84 (Abstract).
652. Woodin, H. E., and A. A. Lindsey. 1954. Juniper-pinyon east of the continental divide, as analyzed by the line-strip method. *Ecology* 35:473-489.
653. Wooten, S. A. 1980. Vegetation recovery following disturbance on the Central Plains Experimental Range. Unpubl. thesis, Colo. St. Univ., Fort Collins.
654. Wright, C. W. 1952. An ecological description of an isolated pinon pine grove. Unpubl. thesis, Univ. of Colo., Boulder. 43 pp.
655. Yeager, W. W. 1937. The forest and forestry of Mesa Verde National Park. *Colo. Forester* 1937:26-31.
656. Young, R. T. 1907. The forest formations of Boulder County, Colorado. *Bot. Gaz.* 44:321-352.
657. Younkin, W. E., Jr. 1970. A study of the vegetation of alpine rock outcrops in northern Colorado. Unpubl. thesis, Colo. St. Univ., Fort Collins. 109 pp.
658. Zarn, M. 1977. Ecological characteristics of pinyon-juniper woodlands on the Colorado Plateau—a literature survey. *USDI, Bur. of Land Mgmt., Tech. Note No. 310*, 183 pp.
659. Zimmerman, T. 1978. Skull Creek Study Area Forestry. Unpubl. report, Bureau of Land Management, Craig District Office, Craig, Colo. 62 pp.
660. Zuck, R. H. 1974. An ecological versus managerial classification of forest communities. Unpubl. thesis, Colo. St. Univ., Fort Collins. 110 pp.

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